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# PROJECTIONS OF EMPLOYMENT 1990-1997

## By Industry and Occupation

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**San Diego Metropolitan Statistical Area**  
**(San Diego County)**

UNIVERSITY OF CALIFORNIA

Prepared by Labor Market Information Division

Employment Development Department



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### **SAN DIEGO PROJECTIONS OF EMPLOYMENT 1990 - 1997**

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**PROJECTIONS OF EMPLOYMENT  
by  
Industry and Occupation  
1990 - 1997**

**SAN DIEGO COUNTY**

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State of California  
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Labor Market Information Division

1993



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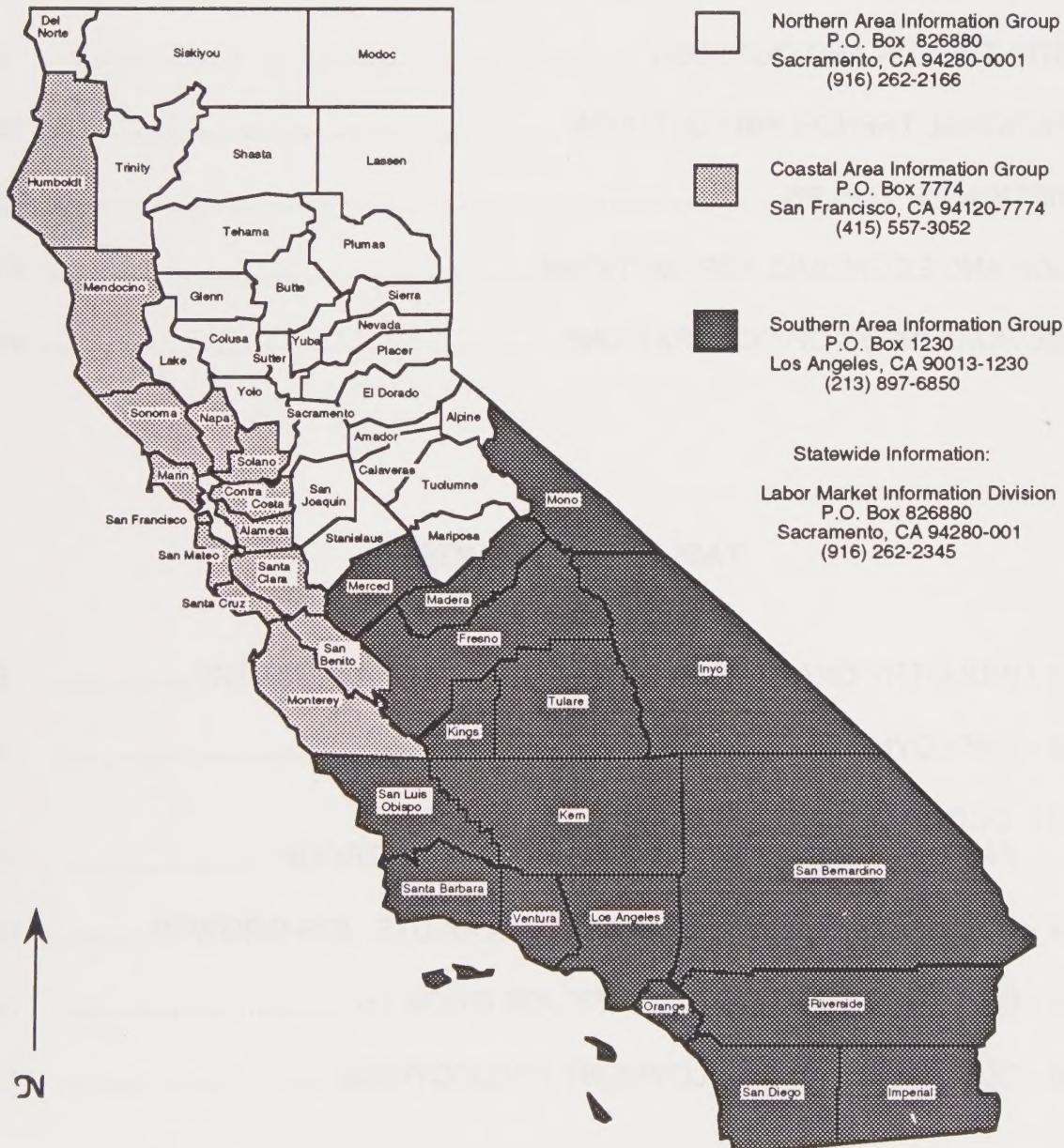
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# EMPLOYMENT DEVELOPMENT DEPARTMENT LABOR MARKET INFORMATION DIVISION AREA INFORMATION GROUPS

This state map provides the address and phone number of the labor market information office for each county and the state.



## INTRODUCTION

As a product of the California Cooperative Occupational Information System (CCOIS), formerly known as the State/Local Cooperative Labor Market Information (LMI) Program, this PROJECTIONS report is for the use of a variety of individuals and organizations interested in the labor market. Combined with other data, the projections presented here can help students, jobseekers, and counselors identify promising career and employment directions; they can help vocational education and training planners decide which programs to initiate, expand, decrease or eliminate; and they can help private sector economic development planners and private industry decision makers plan for the future. In addition to this report, the CCOIS will provide one or more reports and analyses of specific occupations which have been surveyed locally for employer information about the availability of trained workers, recruitment practices, qualifications needed, earnings and hours, advancement patterns, and outlook. These reports will be available through the San Diego Private Industry Council. For more information contact your local Private Industry Council at (619) 238-1445.

These projections show the expected change in the number of jobs in an area both by industry (where the jobs are located within the economy) and by occupation (what the jobs are) over a seven-year period. The report addresses industry and occupational changes separately, with each section covering projections for the same time period.

This report is divided into several sections. It begins with an area profile and is followed by a discussion of trends for major industry divisions and occupational groups, and includes tables which show detailed industry and occupational employment projections. A discussion of the data sources and underlying economic assumptions follows this. Finally, an alphabetical index of the occupational categories used in this report is presented.

The projections contained in this report were developed using an Occupational Employment Statistics (OES) survey-based industry-occupational matrix system. The report includes wage and salary employment, but does not include self-employment or agricultural employment, with the exception of selected agricultural services. For a more detailed description of the methods and data sources used in this report, see the Methods and Economic Assumptions section.

# SAN DIEGO COUNTY



## AREA PROFILE

### SAN DIEGO COUNTY

San Diego County is the southern-most county in California, encompassing 4,280.6 square miles, or an area about the size of the state of Connecticut. The county's terrain varies from 70 miles of Pacific Ocean coastline in the west, to the desert regions of the Anza-Borrego Desert which forms the eastern third of the county. The Laguna Mountains form a natural east-west division. Numerous cliffs, beaches, hills, mesas, canyons, deserts, and valleys contribute to the physical beauty of the region.

The scenic beauty of the county, combined with a mild climate, attracts many people to the area. San Diego County is the second most populous county in the state. Based on the 1990 census, there were 2,498,016 residents. Nearly half of the people are between 25 and 59 years old. Most of the population lives within the western third of the county between the ocean and the mountains. According to the U. S. Census, approximately 65 percent of the total population is white, 20 percent Hispanic, 7 percent Asian, and 6 percent Black. San Diego, the county seat, is the sixth largest city in the nation.

The county's extensive educational system includes 38 colleges and universities and five community college districts. The county has a University of California campus, two California State University campuses, and several private colleges and universities, including National University, Point Loma Nazarene College, and San Diego University.

There are nearly 7,000 miles of roads, including three interstate freeways, in the county. The San Diego International Airport, a one-runway airport located next to San Diego Bay and three miles from downtown San Diego City, is served by most major airlines.

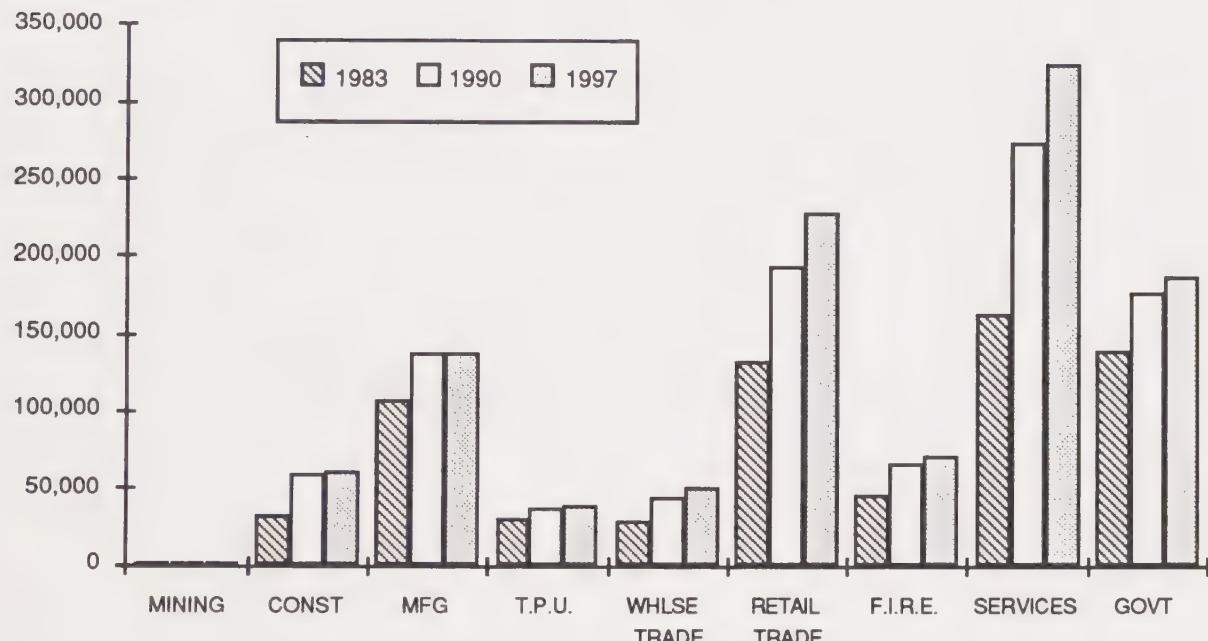
San Diego Bay contains one of the world's largest natural deep-water harbors, and serves ocean-going craft such as U. S. Navy ships, tuna fleets, thousands of pleasure craft, and commercial and cruise ships. Amtrak provides passenger rail service to the San Diego area, while the Atchison, Topeka and Santa Fe Railroad provides freight service.



## INDUSTRY TRENDS

**INDUSTRY CHART**  
**EMPLOYMENT BY MAJOR INDUSTRY**  
**SAN DIEGO COUNTY 1983 - 1990 - 1997**

**EMPLOYMENT**



**TABLE 1**  
**EMPLOYMENT BY MAJOR INDUSTRY (1)**  
**SAN DIEGO COUNTY 1983 - 1990 - 1997**

INDUSTRY TITLE	1983 EMPLOYMENT	% OF TOTAL EMPLOYMENT	1990 EMPLOYMENT	% OF TOTAL EMPLOYMENT	1997 EMPLOYMENT	% OF TOTAL EMPLOYMENT
<b>TOTAL, NONAGRICULTURAL</b>	<b>677,500</b>	<b>100.0%</b>	<b>992,500</b>	<b>100.0%</b>	<b>1,098,700</b>	<b>100.0%</b>
MINING	500	0.1%	700	0.1%	700	0.1%
CONSTRUCTION	31,600	4.7%	59,800	6.0%	60,400	5.5%
MANUFACTURING	106,900	15.8%	137,800	13.9%	137,400	12.5%
TRANSPORTATION & PUBLIC UTILITIES	29,800	4.4%	37,200	3.7%	38,600	3.5%
WHOLESALE TRADE	28,300	4.2%	44,500	4.5%	51,100	4.7%
RETAIL TRADE	131,600	19.4%	194,100	19.6%	227,700	20.7%
FINANCE, INSURANCE, & REAL ESTATE	45,800	6.8%	66,400	6.7%	70,900	6.5%
SERVICES	163,500	24.1%	274,700	27.7%	325,700	29.6%
GOVERNMENT (2)	139,500	20.6%	177,400	17.9%	186,200	16.9%

1/ March 1991 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

2/ Includes all civilian government employees regardless of the activities in which they are engaged.

## INDUSTRY TRENDS AND OUTLOOK

**Nonagricultural wage and salary** employment in San Diego County is projected to grow by 106,200 jobs, or 10.7 percent, during the 1990-1997 projection period. These expected gains are slight in comparison to the county's growth of 315,100 jobs or 46.5 percent during the seven-year recovery expansion period following the 1981-1982 recession. The slow expansion for the county in the current projection period is consistent with the statewide trend and reflects the economic slowdown which began in mid-1990.

**Manufacturing** employment is projected to decrease by 400, or 0.3 percent, between 1990 and 1997. In line with most industries in the county, this industry began losing jobs in mid-1990 and has continued its descent. All of the decline was in durable goods production, reflecting the general economic slowdown, reduction in defense spending, and out-of-state relocation by several firms. It is anticipated that further reductions will occur in this sector during the projection period because of tighter defense and related budgeting. Most of these reductions should be reflected in the high-tech/aerospace firms, such as electronic equipment; aircraft, missiles and parts; and primary fabricated metals. Some job losses in durable goods manufacturing will be offset by increases in nondurable goods manufacturing where employment in all sectors will contribute to a growth of 2,400 county jobs.

The greatest employment growth during the projection period is expected in the county's largest industry division, **services**. For the seven-year period, an additional 51,000 jobs, for a growth rate of 18.6 percent, is estimated. San Diego County has a particularly large concentration of firms which can be categorized as professional services. These professional firms include establishments in miscellaneous business, health, engineering, and management services. Combined, this grouping should make up 65.5 percent of the growth in the services sector.

The second largest industry in the county, **trade**, will increase by 40,200 jobs, or 16.8 percent, during 1990-1997. The greatest expansion in the workforce is expected in retail trade, with an additional 33,600 jobs, or 17.3 percent increase.

The **finance, insurance and real estate** industry division has endured a sluggish economy, surplus building, tougher banking regulatory reviews, consolidations, mergers, and stringent lending practices since 1990. Although employment in this industry is expected to grow during the span of the projection period, these factors will dampen the rate, and county employment will rise a modest 4,500, or 6.8 percent, compared to 66,400 jobs, or 45.0 percent, in the previous seven-year period, 1983-1990.

One of the county's smallest employment gains by 1997 is expected in the **transportation and public utilities** industry division. Job losses projected for the communications sector should be counterbalanced by gains in electric, gas and sanitary services, as well as most groups in the transportation industry. Overall, it is estimated the number of workers will increase by 1,400, for a growth rate of 3.8 percent.

**Government**, San Diego County's third largest employment division, is projected to increase its workforce by 8,800, or 5.0 percent, in the next seven years. The projected increase is much smaller than actual employment growth of 13,900, or 27.2 percent, which occurred during the previous seven-year period, 1983-1990. Federal government will undergo job losses of 1,200, or 2.4 percent, due to reduced budget allocations in both its defense and nondefense sectors. Gains in state and local government are expected to be limited to an increase of 10,000 jobs, or 7.8 percent growth.

**TABLE 2**  
**EMPLOYMENT BY INDUSTRY (1)**  
1990 ANNUAL AVERAGE AND 1997 PROJECTED EMPLOYMENT  
**SAN DIEGO COUNTY**

INDUSTRY TITLE	SIC	1990	1997	ABSOLUTE CHANGE	PERCENT CHANGE
<b>TOTAL NONAGRICULTURAL</b>		<b>992,500</b>	<b>1,098,700</b>	<b>106,200</b>	<b>10.7%</b>
<b>MINING</b>	<b>10-14</b>	<b>700</b>	<b>700</b>	<b>0</b>	<b>0.0%</b>
<b>CONSTRUCTION</b>	<b>15-17</b>	<b>59,800</b>	<b>60,400</b>	<b>600</b>	<b>1.0%</b>
GENERAL BUILDING CONTRACTORS	15	14,800	15,100	300	2.0%
HEAVY CONSTRUCTION, EXC BLDG	16	5,200	5,400	200	3.8%
SPECIAL TRADE CONTRACTORS	17	39,800	39,900	100	0.3%
<b>MANUFACTURING</b>	<b>20-39</b>	<b>137,800</b>	<b>137,400</b>	<b>-400</b>	<b>-0.3%</b>
DURABLE GOODS MANUFACTURING	24-25,32-39	109,000	106,200	-2,800	-2.6%
LUMBER, WOOD, FURNITURE	24-25	4,500	4,900	400	8.9%
STONE, CLAY, & GLASS	32	2,600	2,600	0	0.0%
PRIMARY & FABRICATED METALS	33-34	7,100	6,700	-400	-5.6%
MACHINERY & COMPUTER EQUIPMENT	35	14,900	15,700	800	5.4%
ELEC MACH, EQUIPMNT, EXC COMPUT	36	21,000	20,600	-400	-1.9%
TRANSP EQUIP	37	36,100	32,700	-3,400	-9.4%
PROFESSIONAL, SCIENT INSTR	38	19,300	19,400	100	0.5%
MISC MFG IND	39	3,600	3,600	0	0.0%
NONDURABLE GOODS MANUFACTURING	20-23,26-31	28,800	31,200	2,400	8.3%
FOOD & KINDRED PROD	20	4,000	4,700	700	17.5%
TEXTILE MILL, APPAREL	22-23	4,000	3,900	-100	-2.5%
PAPER, PRINTING, PUBLISHING	26-27	13,400	14,700	1,300	9.7%
CHEMICALS & PETROLEUM	28-29	3,500	3,800	300	8.6%
RUBBER, PLASTIC & LEATHER	30-31	3,900	4,200	300	7.7%
<b>TRANSPORTATION &amp; PUBLIC UTILITIES</b>	<b>40-49</b>	<b>37,200</b>	<b>38,600</b>	<b>1,400</b>	<b>3.8%</b>
TRANSPORTATION	40-42,44-47	19,100	20,200	1,100	5.8%
LOCAL & INTERURBAN TRANSIT	41	2,500	2,700	200	8.0%
TRUCKING & WAREHOUSING	42	6,300	6,500	200	3.2%
AIR TRANSPORTATION	45	5,900	6,100	200	3.4%
OTHER TRANSPORTATION	40,44,46-47	4,400	4,800	400	9.1%
COMMUNICATIONS & UTILITIES	48-49	18,100	18,400	300	1.7%
COMMUNICATIONS	48	9,900	9,400	-500	-5.1%
UTILITIES & SANITARY SERVICES	49	8,300	9,000	700	8.4%
<b>WHOLESALE &amp; RETAIL TRADE</b>	<b>50-59</b>	<b>238,600</b>	<b>278,800</b>	<b>40,200</b>	<b>16.8%</b>
<b>WHOLESALE TRADE</b>	<b>50-51</b>	<b>44,500</b>	<b>51,100</b>	<b>6,600</b>	<b>14.8%</b>
DURABLE GOODS	50	25,800	29,400	3,600	14.0%
NONDURABLE GOODS	51	18,700	21,700	3,000	16.0%

1/ March 1991 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

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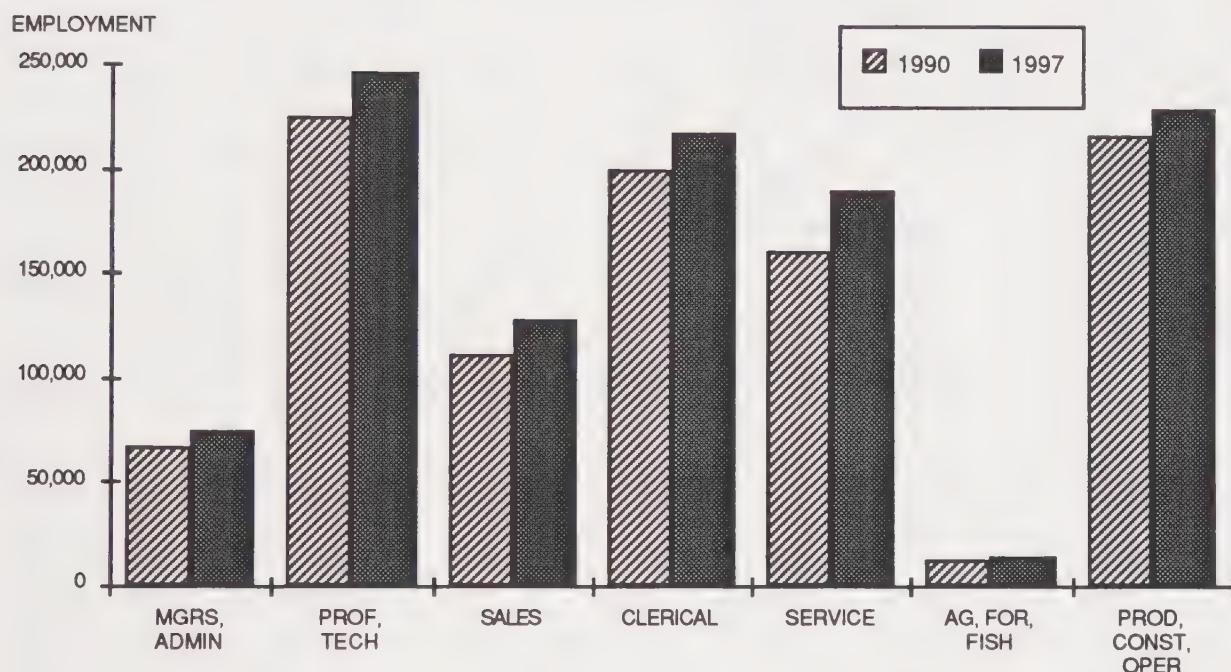
<b>RETAIL TRADE</b>	<b>52-59</b>	<b>194,100</b>	<b>227,700</b>	<b>33,600</b>	<b>17.3%</b>
BLDG MAT, GARD SUP, MOB HOMES	52	7,700	9,200	1,500	19.5%
RETAIL TRADE, GEN MERCHANDISE	53	17,800	18,400	600	3.4%
FOOD STORES	54	24,800	30,000	5,200	21.0%
AUTOMOBILE & RECREATION VEHICLES	55	20,500	23,200	2,700	13.2%
APPAREL & ACCESSORIES STORES	56	12,400	13,900	1,500	12.1%
FURNITURE & HOME FURNISH STORES	57	9,000	10,400	1,400	15.6%
EATING & DRINKING ESTABLISHMENTS	58	76,400	94,200	17,800	23.3%
MISCELLANEOUS RETAIL STORES	59	25,600	28,400	2,800	10.9%
<b>FINANCE, INSURANCE, &amp; REAL ESTATE</b>	<b>60-67</b>	<b>66,400</b>	<b>70,900</b>	<b>4,500</b>	<b>6.8%</b>
FINANCE	60-62,67	32,200	33,200	1,000	3.1%
BANKING	60	23,800	24,600	800	3.4%
OTHER FINANCE	61-62,67	8,300	8,700	400	4.8%
INS CARRIERS, AGENTS & BROKERS	63-64	12,700	13,900	1,200	9.4%
INSURANCE CARRIERS	63	8,100	8,800	700	8.6%
INS AGENTS, BROKERS, & SERV	64	4,600	5,100	500	10.9%
REAL ESTATE	65	21,500	23,800	2,300	10.7%
<b>SERVICES</b>	<b>70-89</b>	<b>274,700</b>	<b>325,700</b>	<b>51,000</b>	<b>18.6%</b>
HOTELS & OTHER LODGING PLACES	70	23,400	27,300	3,900	16.7%
PERSONAL SERVICES	72	10,500	11,300	800	7.6%
BUSINESS SERVICES	73	53,000	68,000	15,000	28.3%
MOTION PICTURES & AMUSEMENTS	78-79	17,600	20,800	3,200	18.2%
HEALTH SERVICES	80	61,500	74,800	13,300	21.6%
EDUCATIONAL SERVICES	82	10,800	12,000	1,200	11.1%
ENGNR, ACCNTG, RES, MGMT SERV	87	35,600	41,200	5,600	15.7%
OTHER SERVICES	75-6,81,3-6,8	62,400	70,300	7,900	12.7%
<b>GOVERNMENT (2)</b>		<b>177,400</b>	<b>186,200</b>	<b>8,800</b>	<b>5.0%</b>
FEDERAL GOVERNMENT		49,200	48,000	-1,200	-2.4%
STATE AND LOCAL		128,200	138,200	10,000	7.8%
STATE EDUCATION		18,000	19,700	1,700	9.4%
STATE NONEDUCATION		10,100	11,100	1,000	9.9%
LOCAL EDUCATION		55,000	56,800	1,800	3.3%
LOCAL NONEDUCATION		45,000	50,600	5,600	12.4%

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2/ Includes all civilian government employees regardless of the activities in which they are engaged.

## OCCUPATIONAL TRENDS

**OCCUPATIONAL CHART**  
**EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP**  
**SAN DIEGO COUNTY 1990 - 1997**



**TABLE 3**  
**EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP**  
**SAN DIEGO COUNTY 1990 - 1997**

OCCUPATIONAL GROUP	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
<b>TOTAL, ALL OCCUPATIONS</b>	<b>992,500</b>	<b>100.0%</b>	<b>1,098,700</b>	<b>100.0%</b>	<b>106,200</b>	<b>10.7%</b>
<b>MGRS AND ADMINISTRATIVE</b>	<b>67,120</b>	<b>6.8%</b>	<b>74,830</b>	<b>6.8%</b>	<b>7,710</b>	<b>11.5%</b>
<b>PROFESSIONAL, PARAPROF, TECH</b>	<b>224,470</b>	<b>22.6%</b>	<b>247,130</b>	<b>22.5%</b>	<b>22,660</b>	<b>10.1%</b>
<b>SALES AND RELATED</b>	<b>111,760</b>	<b>11.3%</b>	<b>127,030</b>	<b>11.6%</b>	<b>15,270</b>	<b>13.7%</b>
<b>CLERICAL, ADMINISTRATIVE SUPPORT</b>	<b>200,340</b>	<b>20.2%</b>	<b>217,080</b>	<b>19.8%</b>	<b>16,740</b>	<b>8.4%</b>
<b>SERVICE OCCUPATIONS</b>	<b>160,110</b>	<b>16.1%</b>	<b>189,870</b>	<b>17.3%</b>	<b>29,760</b>	<b>18.6%</b>
<b>AGRICULTURAL, FORESTRY, FISH</b>	<b>12,470</b>	<b>1.3%</b>	<b>13,690</b>	<b>1.2%</b>	<b>1,220</b>	<b>9.8%</b>
<b>PROD, CONST, OPER, MAT HAND</b>	<b>215,870</b>	<b>21.8%</b>	<b>228,760</b>	<b>20.8%</b>	<b>12,890</b>	<b>6.0%</b>

\*TOTAL INCLUDES A SMALL NUMBER OF OCCUPATIONS WHICH WERE NOT CLASSIFIED, AND IS BASED ON THE 3/91 BENCHMARKED INDUSTRY TOTAL

**TABLE 4**  
**OCCUPATIONS WITH THE GREATEST ABSOLUTE JOB GROWTH\***

**SAN DIEGO COUNTY 1990 - 1997**

OCCUPATION	1990	1997	ABSOLUTE CHANGE	PERCENT CHANGE
COMBINED FOOD PREP AND SERVICE	20,520	25,550	5,030	24.5%
CASHIERS	23,620	27,500	3,880	16.4%
WAITERS AND WAITRESSES	18,110	21,990	3,880	21.4%
SALESPERSONS - RETAIL(NON-VEHICLE)	33,020	36,850	3,830	11.6%
GENERAL OFFICE CLERKS	30,890	34,440	3,550	11.5%
REGISTERED NURSES	15,570	18,330	2,760	17.7%
GENERAL MANAGERS, TOP EXECUTIVES	24,610	27,260	2,650	10.8%
FOOD PREPARATION WORKERS	12,540	14,780	2,240	17.9%
SECRETARIES, GENERAL	22,070	24,090	2,020	9.2%
RECEPTIONISTS, INFORMATION CLERKS	9,990	11,750	1,760	17.6%
COOKS--RESTAURANT	6,350	8,030	1,680	26.5%
JANITORS, CLEANERS--EXCEPT MAIDS	13,430	15,060	1,630	12.1%
GUARDS AND WATCH GUARDS	7,110	8,490	1,380	19.4%
STOCK CLERKS--SALES FLOOR	8,440	9,750	1,310	15.5%
DINING RM ATTENDANTS, BAR HELPERS	6,100	7,410	1,310	21.5%
NURSE AIDES, ORDERLIES, ATTENDANTS	5,650	6,780	1,130	20.0%
TRUCK DRIVERS, LIGHT	7,020	8,100	1,080	15.4%
COOKS--SPECIALTY FAST FOOD	4,770	5,830	1,060	22.2%
SALES REPS, NON-SCIENTIFIC EX RET	8,970	10,020	1,050	11.7%
MAINT REPAIRERS, GENL UTILITY	9,980	11,010	1,030	10.3%
COMPUTER PROGRAMMERS, INCL AIDES	5,980	6,920	940	15.7%
MAIDS AND HOUSEKEEPING CLEANERS	6,520	7,440	920	14.1%
TYPISTS, INCLUDING WORD PROCESSING	7,810	8,710	900	11.5%
AUTOMOTIVE MECHANICS	5,920	6,790	870	14.7%
PHYSICIANS AND SURGEONS	4,710	5,540	830	17.6%
LICENSED VOCATIONAL NURSES	4,040	4,870	830	20.5%
COUNTER ATTENDANTS--FOOD	3,520	4,320	800	22.7%
ACCOUNTANTS AND AUDITORS	6,930	7,700	770	11.1%
FOOD SERVICE MANAGERS	2,440	3,190	750	30.7%
BOOKKEEPING, ACCOUNTING CLERKS	18,370	19,120	750	4.1%
INSTRUCTIONAL AIDES	12,280	13,010	730	5.9%
MKTNG, ADV, PUB-REL MANAGERS	4,320	5,020	700	16.2%
GARDENERS, GROUNDSKEEPERS-EX FARM	9,080	9,760	680	7.5%
HAND PACKERS AND PACKAGERS	4,120	4,790	670	16.3%
FINANCIAL MANAGERS	7,270	7,930	660	9.1%
DATA ENTRY KEYERS--EX COMPOSING	3,760	4,350	590	15.7%
TRAFFIC, SHIPPING, RECEIVING CLKS	7,180	7,740	560	7.8%
SYSTEMS ANALYSTS--ELEC DATA PROC	4,210	4,750	540	12.8%
TRUCK DRIVERS, HEAVY	5,500	6,040	540	9.8%
STOCK CLERKS--STOCKROOM, WAREHOUSE	8,310	8,800	490	5.9%
HOSTS, HOSTesses--RESTAURANTS	2,670	3,160	490	18.4%
SECRETARIES, MEDICAL	2,030	2,490	460	22.7%
MEDICAL ASSISTANTS	1,940	2,390	450	23.2%
ELECT, ELECTRONIC ENGINEERING TECH	4,870	5,290	420	8.6%
DENTAL ASSISTANTS	1,890	2,300	410	21.7%
ENGINEER, MATH, AND NAT SCI MGRS	4,140	4,530	390	9.4%
COMPUTER ENGINEERS	2,110	2,500	390	18.5%
TEACHERS--ELEMENTARY SCHOOL	9,460	9,840	380	4.0%
COUNTER AND RENTAL CLERKS	2,250	2,630	380	16.9%
PROPERTY AND REAL ESTATE MANAGERS	2,800	3,170	370	13.2%

\* EXCLUDES NEC CATEGORIES

**TABLE 5**  
**OCCUPATIONS WITH THE FASTEST JOB GROWTH\***

**SAN DIEGO COUNTY 1990 - 1997**

OCCUPATION	1990	1997	ABSOLUTE CHANGE	PERCENT CHANGE
PSYCHIATRIC TECHNICIANS	270	360	90	33.3%
SUBWAY AND STREETCAR OPERATORS	220	290	70	31.8%
PHYSICAL THERAPISTS	680	890	210	30.9%
FOOD SERVICE MANAGERS	2,440	3,190	750	30.7%
RADIOLOGIC TECHNOLOGIST, THERAPEUTIC	720	930	210	29.2%
EMPL INTERVIEWERS--PRIV OR PUB	530	680	150	28.3%
PERSONAL AND HOME CARE AIDES	540	690	150	27.8%
HUMAN SERVICES WORKERS	630	800	170	27.0%
HOME HEALTH CARE WORKERS	520	660	140	26.9%
COOKS--RESTAURANT	6,350	8,030	1,680	26.5%
DEMONSTRATORS, PROMOTERS, MODELS	610	770	160	26.2%
DENTAL HYGIENISTS	920	1,160	240	26.1%
DATA PROCESSING EQUIP REPAIRERS	500	630	130	26.0%
MEDICAL SCIENTISTS	770	970	200	26.0%
PEST CONTROLLERS AND ASSISTANTS	660	830	170	25.8%
RESPIRATORY CARE PRACTITIONERS	830	1,040	210	25.3%
RADIOLOGIC TECHNOLOGIST, DIAGNOSTIC	440	550	110	25.0%
COMBINED FOOD PREP AND SERVICE	20,520	25,550	5,030	24.5%
PHOTOGRAPHIC PROC MACH OPS, TNDRS	490	610	120	24.5%
PSYCHIATRIC AIDES	410	510	100	24.4%
PHYSICAL THERAPY ASSISTANTS & AIDE	640	790	150	23.4%
MEDICAL ASSISTANTS	1,940	2,390	450	23.2%
BAKERS--BREAD AND PASTRY	1,260	1,550	290	23.0%
COUNTER ATTENDANTS--FOOD	3,520	4,320	800	22.7%
SECRETARIES, MEDICAL	2,030	2,490	460	22.7%
CORRECTION OFFICERS, JAILERS	1,550	1,900	350	22.6%
COOKS--SPECIALTY FAST FOOD	4,770	5,830	1,060	22.2%
SOCIAL WORKERS--MED, PSYCHIATRIC	1,260	1,540	280	22.2%
ATHLETES, COACHES, UMPRS, RELATED	270	330	60	22.2%
DENTAL ASSISTANTS	1,890	2,300	410	21.7%
COOKS--SHORT ORDER	1,350	1,640	290	21.5%
DINING RM ATTENDANTS, BAR HELPERS	6,100	7,410	1,310	21.5%
WAITERS AND WAITRESSES	18,110	21,990	3,880	21.4%
MED, CLINICAL LAB ASSISTANTS	750	910	160	21.3%
CHILD CARE WORKERS	1,390	1,680	290	20.9%
INTERIOR DESIGNERS	480	580	100	20.8%
LODGING MANAGERS	970	1,170	200	20.6%
LICENSED VOCATIONAL NURSES	4,040	4,870	830	20.5%
NURSE AIDES, ORDERLIES, ATTENDANTS	5,650	6,780	1,130	20.0%
DUPLICATING MACHINE OPERATORS	450	540	90	20.0%
CHIROPRACTORS	250	300	50	20.0%
NURSERY WORKERS	1,360	1,630	270	19.9%
BAKERS--MANUFACTURING	360	430	70	19.4%
GUARDS AND WATCH GUARDS	7,110	8,490	1,380	19.4%
DENTISTS	980	1,170	190	19.4%
USHERS, LOBBY ATTENDANTS	1,050	1,250	200	19.0%
ELECT HOME ENTERTAINMENT REPAIRERS	530	630	100	18.9%
MEDICINE, HEALTH SERVICES MGRS	1,010	1,200	190	18.8%
DETECTIVES, INVESTIGATORS--EX PUB	480	570	90	18.8%
COMPUTER ENGINEERS	2,110	2,500	390	18.5%

\* EXCLUDES NEC CATEGORIES AND OCCUPATIONS WITH EMPLOYMENT OF LESS THAN 250 IN 1990

## OCCUPATIONAL TRENDS AND OUTLOOK

This section of the report provides a discussion of major trends for the occupational categories which are shown in Table 6. Projected changes in the level of employment in each occupation between 1990 and 1997 give an estimate of the number of new jobs expected during the seven-year period.

Changes in the employment levels of the various occupations reflect changes in the area's overall level of economic activity, differences in the rate of growth or decline among the various industries, and changes in the occupational structure within individual industries. Changes in occupational structure are determined by such factors as technological change, changes in product demand, and the adoption of more efficient business or production techniques. While economic growth tends to ensure an increase in demand for widely used occupations, the growth of employment in specific industries will bring an increase in the demand for other, less widely used occupations.

Overall employment is expected to increase by 10.7 percent from 1990 to 1997. This is a relatively low rate of increase for a seven-year period. Job growth over the forecast period should slow to less than one-third the average rate for the previous ten year period.

Service occupations will grow faster than any other major occupational category. Service jobs will increase from an estimated 160,110 in 1990 to 189,870 in 1997. In addition to the 29,760 jobs created by the expansion of the industry, 46,260 openings will occur due to workers permanently leaving an occupation. Although service jobs will grow faster than any other major occupational group, the expected rate of increase will be less than half that experienced for all occupations from 1980 to 1990.

### MANAGERIAL AND ADMINISTRATIVE WORKERS

The number of managers and administrators is expected to increase 11.5 percent, a rate slightly higher than that of the overall rate of job growth for all occupations from 1990 to 1997.

#### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE MANAGERS AND ADMINISTRATIVE WORKERS GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
MGRS AND ADMINISTRATIVE	67,120	100.0%	74,830	100.0%
GENERAL MANAGERS, TOP EXECUTIVES	24,610	36.7%	27,260	36.4%
FINANCIAL MANAGERS	7,270	10.8%	7,930	10.6%
MKTG, ADV, PUB-REL MANAGERS	4,320	6.4%	5,020	6.7%
ENGINEER, MATH, AND NAT SCI MGRS	4,140	6.2%	4,530	6.1%
FOOD SERVICE MANAGERS	2,440	3.6%	3,190	4.3%

\* EXCLUDES NEC CATEGORIES

General managers/top executives dominate the managerial and administrative occupations. Within this management group, more than one-in-three workers are classified as general managers/top executives. This large occupational category is expected to increase by 10.8 percent, close to the overall rate of projected job growth.

Jobs for food service, lodging, health, and marketing managers should rise faster than the overall rate of increase in jobs. The lowest rate of job creation will be realized by managers in engineering, science, construction, production, and education.

## PROFESSIONAL AND TECHNICAL

Jobs in the professional and technical occupations should grow at an average annual rate which will be slightly lower than the overall rate of job growth. At 224,470 estimated jobs in 1990, this occupational category represents 22.6 percent of all workers and is the largest major occupational group in the county.

Health-related occupations are expected to increase faster than most other occupations in this work designation. Notable increases are anticipated for therapists, health maintenance workers, and various health technicians.

Aeronautical and astronautical engineers are among the few occupations in this group that will show job declines over the 1990-1997 period. This weakness is expected as a result of the contraction in the aerospace industry.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE PROFESSIONAL AND TECHNICAL GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
PROFESSIONAL, PARAPROF, TECH.	224,470	100.0%	247,130	100.0%
REGISTERED NURSES	15,570	6.9%	18,330	7.4%
INSTRUCTIONAL AIDES	12,280	5.5%	13,010	5.3%
TEACHERS--ELEMENTARY SCHOOL	9,460	4.2%	9,840	4.0%
ELECT AND ELECTRONIC ENGINEERS	7,920	3.5%	8,170	3.3%
ACCOUNTANTS AND AUDITORS	6,930	3.1%	7,700	3.1%

\* EXCLUDES NEC CATEGORIES

## SALES AND RELATED

Sales and related occupations will register the second largest rate of growth among major occupational groups. Jobs in this occupational group should rise by 13.7 percent over the forecast period. Cashiers, the second largest occupation in this group, after salesperson-retail, should show the greatest growth over the seven year period. The slowest job growth should occur in the real estate-related occupations.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE SALES AND RELATED GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
SALES AND RELATED OCCUPATIONS	111,760	100.0%	127,030	100.0%
SALESPERSONS - RETAIL (NON-VEHICLE)	33,020	29.5%	36,850	29.0%
CASHIERS	23,620	21.1%	27,500	21.7%
FIRST-LINE SUP/MGR--SALES	12,470	11.2%	14,110	11.1%
SALES REPS, NON-SCIENTIFIC EX RETAIL	8,970	8.0%	10,020	7.9%
STOCK CLERKS--SALES FLOOR	8,440	7.6%	9,750	7.7%

\* EXCLUDES NEC CATEGORIES

## CLERICAL AND ADMINISTRATIVE SUPPORT

Clerical and administrative support occupations represent the third largest occupational group in the county labor market. Jobs in this group will expand by 8.4 percent from 1990 to 1997, slower than the overall growth rate of 10.7 percent for total county employment.

Medical secretaries, hotel desk clerks, receptionists, and electronic data processing (EDP) clerks are expected to show higher than average rates of growth. Financial, communication, and distribution-related occupations will grow at the slowest rates in this occupational group.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE CLERICAL AND ADMINISTRATIVE SUPPORT GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF EMPLOYMENT	1997 EMPLOYMENT	% OF TOTAL
<b>CLERICAL, ADMINISTRATIVE SUPPORT</b>	200,340	100.0%	217,080	100.0%
GENERAL OFFICE CLERKS	30,890	15.4%	34,440	15.9%
SECRETARIES, GENERAL	22,070	11.0%	24,090	11.1%
BOOKKEEPING, ACCOUNTING CLERKS	18,370	9.2%	19,120	8.8%
FIRST-LINE SUP/MGR, CLERL, ADM SUP	13,910	6.9%	15,110	7.0%
RECEPTIONISTS, INFORMATION CLERKS	9,990	5.0%	11,750	5.4%

\* EXCLUDES NEC CATEGORIES

## SERVICE OCCUPATIONS

The service occupations group is expected to increase faster than any other major occupational group. Service occupations will increase by 18.6 percent over the forecast period as compared to the overall 10.7 percent for all occupations.

Food, beverage preparation, and service occupations, the largest segment of the service occupations group, along with health services and related occupations, are expected to grow faster than any other subcategories of this group. Employment of food and beverage related occupations were estimated to average 87,220 in 1990, and are projected to increase to 105,570 by 1997. Cleaning and personal service occupations are expanding at rates significantly below other service occupation categories.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE SERVICE GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF EMPLOYMENT	1997 EMPLOYMENT	% OF TOTAL
<b>SERVICE OCCUPATIONS</b>	160,110	100.0%	189,870	100.0%
COMBINED FOOD PREP AND SERVICE	20,520	12.8%	25,550	13.5%
WAITERS AND WAITRESSES	18,110	11.3%	21,990	11.6%
JANITORS, CLEANERS--EXCEPT MAIDS	13,430	8.4%	15,060	7.9%
FOOD PREPARATION WORKERS	12,540	7.8%	14,780	7.8%
GUARDS AND WATCH GUARDS	7,110	4.4%	8,490	4.5%

\* EXCLUDES NEC CATEGORIES

## AGRICULTURAL, FORESTRY, AND FISHING

Occupations related to agriculture, forestry, and fisheries are relatively small as compared to other major occupational categories in San Diego County. Employment in this group is expected to increase at a rate slightly lower than that for total employment. Gardeners and groundskeepers are expected to show especially slow growth over the forecast period.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE AGRICULTURE, FORESTRY AND FISHING GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
AGRICULTURAL, FORESTRY, FISHING	12,470	100.0%	13,690	100.0%
GARDENER, GROUNDSKEEPER-EX FARM	9,080	73.0%	9,760	71.3%
NURSERY WORKERS	1,360	10.9%	1,630	11.9%
ANIMAL CARETAKERS--EXCEPT FARM	450	3.6%	510	3.7%
GRADERS, SORTERS--AG PRODUCTS	280	2.3%	320	2.4%
FOREST, CONSERVATION WORKERS	270	2.2%	280	2.0%

\* EXCLUDES NEC CATEGORIES

## PRODUCTION, CONSTRUCTION, AND RELATED

Production, construction, operating, maintenance, and material handling occupations will show the slowest rate of growth among all major occupational groups. These occupations are found primarily in the manufacturing and construction industries which have a very poor outlook.

Construction trades will show unusually low rates of growth and expand by only 2.8 percent over the seven-year forecast period. Assemblers and fabricators, one of the largest occupational subgroups will show virtually no change from 1990 to 1997.

### OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE PRODUCTION, CONSTRUCTION, AND RELATED GROUP\*

OCCUPATION	1990 EMPLOYMENT	% OF TOTAL	1997 EMPLOYMENT	% OF TOTAL
PROD, CONST, OPER, MAT HANDLING	215,870	100.0%	228,760	100.0%
MAINT REPAIRERS, GENL UTILITY	9,980	4.6%	11,010	4.8%
ASSEMB, FABRICATORS--EX MACH,ELECT	10,220	4.7%	10,380	4.5%
TRUCK DRIVERS, LIGHT	7,020	3.3%	8,100	3.5%
CARPENTERS	7,750	3.6%	7,920	3.5%
AUTOMOTIVE MECHANICS	5,920	2.8%	6,790	3.0%

\* EXCLUDES NEC CATEGORIES

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
1		<b>TOTAL, ALL OCCUPATIONS</b>	992,500	1,098,700	106,200	10.7	171,460
2	100000	<b>MGRS AND ADMIN OCCUPATIONS</b>	67,120	74,830	7,710	11.5	7,330
3	130020	FINANCIAL MANAGERS	7,270	7,930	660	9.1	700
4	130050	PERS, TRAINING, LABOR-REL MGRS	1,800	2,000	200	11.1	300
5	130080	PURCHASING MANAGERS	2,330	2,600	270	11.6	320
6	130110	MKTNG, ADV, PUB-REL MANAGERS	4,320	5,020	700	16.2	620
7	130140	ADMINISTRATIVE SERVICES MANAGERS	2,240	2,420	180	8.0	230
8	130170	ENGINEER, MATH, AND NAT SCI MGRS	4,140	4,530	390	9.4	430
10	150050	EDUCATION ADMINISTRATORS	2,670	2,870	200	7.5	370
11	150080	MEDICINE, HEALTH SERVICES MGRS	1,010	1,200	190	18.8	80
12	150110	PROPERTY AND REAL ESTATE MANAGERS	2,800	3,170	370	13.2	260
13	150140	INDUSTRIAL PRODUCTION MANAGERS	1,870	1,950	80	4.3	190
14	150170	CONSTRUCTION MANAGERS	2,180	2,340	160	7.3	220
16	150230	COMM, TRANS, UTIL OPER MGRS	910	980	70	7.7	90
17	150261	FOOD SERVICE MANAGERS	2,440	3,190	750	30.7	280
18	150262	LODGING MANAGERS	970	1,170	200	20.6	110
19	190020	PUB ADMIN CHIEF EXECS, LEGISLATORS	130	150	20	15.4	20
20	190050	GENERAL MANAGERS, TOP EXECUTIVES	24,610	27,260	2,650	10.8	2,540
21	199990	MANAGERS AND ADMINISTRATORS, NEC	5,430	6,050	620	11.4	570
22	200000	<b>PROFESSIONAL, PARAPROF, TECHNICAL</b>	224,470	247,130	22,660	10.1	27,220
23	210000	<b>MANAGEMENT SUPPORT OCCUPATIONS</b>	31,530	34,380	2,850	9.0	3,230
24	211000	ACCOUNTANTS, AUDIT, FINANCE SPECS	13,530	14,730	1,200	8.9	1,390
25	211020	UNDERWRITERS	810	880	70	8.6	100
26	211050	CREDIT ANALYSTS	340	370	30	8.8	30
27	211080	LOAN OFFICERS AND COUNSELORS	1,640	1,700	60	3.7	150
28	211110	TAX PREPARERS	590	680	90	15.3	60
29	211140	ACCOUNTANTS AND AUDITORS	6,930	7,700	770	11.1	750
30	211170	BUDGET ANALYSTS	830	880	50	6.0	80
31	211990	FINANCIAL SPECIALISTS, NEC	2,390	2,520	130	5.4	220
32	213000	PURCHASING AGENTS AND BUYERS	4,410	4,640	230	5.2	550
33	213020	WHLE AND RET BUYERS--EX FARM PRODS	1,280	1,450	170	13.3	180
35	213080	PURCH AGTS--EX WHLE,RET,FARM PRODS	3,130	3,190	60	1.9	370

\*TOTAL IS BASED ON THE 3/91 BENCHMARKED INDUSTRY TOTAL

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**

**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
36	215000	PERS, TRAINING, LAB-REL SPECS	2,580	2,930	350	13.6	310
39	215080	EMPL INTERVIEWERS--PRIV OR PUB	530	680	150	28.3	70
40	215110	PERS, TRAINING, LAB-REL SPECS, NEC	2,050	2,250	200	9.8	240
41	219000	OTHER MANAGEMENT SUPPORT WORKERS	11,010	12,080	1,070	9.7	980
42	219020	COST ESTIMATORS	2,220	2,260	40	1.8	170
43	219050	MANAGEMENT ANALYSTS	1,050	1,200	150	14.3	70
44	219080	CONST AND BUILDING INSPECTORS	390	420	30	7.7	70
45	219110	COMPL, ENFORCE INSPECT--EX CONST	1,880	1,940	60	3.2	190
46	219140	TAX EXAMINERS, COLLECT, REV AGENTS	410	420	10	2.4	40
47	219170	ASSESSORS	220	240	20	9.1	30
48	219210	CLAIMS EXAMINERS--INSURANCE	130	150	20	15.4	10
49	219990	MANAGEMENT SUPPORT WORKERS, NEC	4,710	5,450	740	15.7	400
50	220000	ENGINEERS, ARCHITECTS, SURVEYORS	41,850	44,300	2,450	5.9	6,410
51	221000	ENGINEERS	25,240	26,640	1,400	-5.5	3,960
52	221020	AERONAUT, ASTRONAUTICAL ENGINEERS	4,640	4,410	-230	-5.0	740
53	221050	METALLURGISTS, RELATED ENGINEERS	190	210	20	10.5	30
56	221140	CHEMICAL ENGINEERS	260	290	30	11.5	40
58	221210	CIVIL ENGINEERS--INCLUDING TRAFFIC	2,170	2,430	260	12.0	340
60	221260	ELECT AND ELECTRONIC ENGINEERS	7,920	8,170	250	3.2	1,130
61	221270	COMPUTER ENGINEERS	2,110	2,500	390	18.5	330
62	221280	INDUST ENGINEERS--EXCEPT SAFETY	1,840	1,770	-70	-3.8	280
63	221320	SAFETY ENGINEERS--EXCEPT MINING	280	290	10	3.6	40
64	221350	MECHANICAL ENGINEERS	2,580	2,740	160	6.2	450
65	221380	MARINE ENGINEERS	220	260	40	18.2	40
66	221990	ENGINEERS, NEC	3,030	3,570	540	17.8	540
67	223000	ARCHITECTS AND SURVEYORS	2,190	2,340	150	6.8	230
68	223020	ARCHITECTS--EX LANDSCAPE, MARINE	970	1,100	130	13.4	110
70	223080	LANDSCAPE ARCHITECTS	710	700	-10	-1.4	80
71	223110	SURVEYING AND MAPPING SCIENTISTS	510	540	30	5.9	40
72	225000	ENGINEERING, RELATED TECHNICIANS	14,420	15,320	900	6.2	2,220
73	225020	CIVIL ENGINEERING TECHNICIANS	800	910	110	13.8	160
74	225050	ELECT, ELECTRONIC ENGINEERING TECH	4,870	5,290	420	8.6	370
75	225080	INDUST ENGINEERING TECHS	410	370	-40	-9.8	30
76	225110	MECHANICAL ENGINEERING TECHS	840	840	0	0.0	60
77	225140	DRAFTERS	3,470	3,690	220	6.3	900
79	225210	SURVEYING AND MAPPING TECHS	630	720	90	14.3	60
80	225990	ENGINEERING, RELATED TECHS, NEC	3,400	3,500	100	2.9	640

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
81	240000	NAT SCIENTISTS AND RELATED WORKERS	7,080	8,040	960	13.6	1,560
82	241000	PHYSICAL SCIENTISTS	1,770	1,940	170	9.6	400
83	241020	PHYSICISTS AND ASTRONOMERS	410	410	0	0.0	90
84	241050	CHEMISTS, EXCEPT BIOCHEMISTS	510	570	60	11.8	120
86	241110	GEOLOGIST, GEOPHY, OCEANOGRAPHER	280	310	30	10.7	60
87	241990	PHYSICAL SCIENTISTS, NEC	570	650	80	14.0	130
88	243000	LIFE SCIENTISTS	2,290	2,680	390	17.0	550
90	243050	AGRICULTURAL AND FOOD SCIENTISTS	130	140	10	7.7	30
91	243080	BIOLOGICAL SCIENTISTS	970	1,090	120	12.4	230
92	243110	MEDICAL SCIENTISTS	770	970	200	26.0	190
93	243990	LIFE SCIENTISTS, NEC	420	480	60	14.3	100
94	245000	PHYSICAL, LIFE SCIENCE TECHS	3,020	3,420	400	13.2	610
95	245020	BIOLOGICAL,AGRI, FOOD TECHS	480	520	40	8.3	100
96	245050	CHEM TECHS--EXCEPT HEALTH	360	410	50	13.9	70
99	245990	PHYSICAL, LIFE SCIENCE TECHS, NEC	2,180	2,490	310	14.2	440
100	250000	COMPUTER, MATH, OPS RESRCH, RELATED	12,110	13,740	1,630	13.5	1,260
101	251000	COMPUTER SCIENTISTS AND RELATED	10,620	12,200	1,580	14.9	1,150
102	251020	SYSTEMS ANALYSTS--ELEC DATA PROC	4,210	4,750	540	12.8	190
103	251051	COMPUTER PROGRAMMERS, INCL AIDES	5,980	6,920	940	15.7	940
105	251990	COMPUTER SCIENTIST, REL WRKRS,NEC	430	530	100	23.3	20
106	253000	MATH SCIENTISTS AND RELATED	1,490	1,540	50	3.4	110
107	253020	OPS, SYS RESEARCHERS--EX COMPUTER	590	590	0	0.0	40
109	253120	STATISTICIANS	420	470	50	11.9	40
111	253150	FINANCIAL ANALYSTS, STATISTICAL	170	180	10	5.9	10
112	253190	MATHEMATICAL SCIENTISTS, NEC	310	300	-10	-3.2	20
114	270000	SOCIAL SCI, RECREATION, RELIGIOUS	7,940	9,090	1,150	14.5	620
115	271000	SOCIAL SCI--INCL URBAN, REG PLNERS	1,460	1,610	150	10.3	150
116	271020	ECONOMIST--INCL MKT RESRCH ANALYST	130	140	10	7.7	30
117	271050	URBAN AND REGIONAL PLANNERS	430	480	50	11.6	60
118	271080	PSYCHOLOGISTS	700	780	80	11.4	30
119	271990	SOCIAL SCIENTISTS, NEC	200	210	10	5.0	30

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**

**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
120	273000	OTH SOCIAL SCIENCE RELATED WORKERS	5,670	6,640	970	17.1	390
121	273020	SOCIAL WORKERS--MED, PSYCHIATRIC	1,260	1,540	280	22.2	70
122	273050	SOCIAL WKRS--EX MED, PSYCHIATRIC	1,590	1,850	260	16.4	90
124	273080	HUMAN SERVICES WORKERS	630	800	170	27.0	40
125	273110	RECREATION WORKERS	2,190	2,450	260	11.9	190
126	275000	RELIGIOUS WORKERS	810	840	30	3.7	80
127	275020	CLERGY	690	710	20	2.9	70
129	275990	RELIGIOUS WORKERS, NEC	120	130	10	8.3	10
130	280000	LAW AND RELATED OCCUPATIONS	7,200	7,560	360	5.0	760
131	281000	LAWYERS AND RELATED WORKERS	4,580	4,830	250	5.5	620
132	281020	JUDGES AND MAGISTRATES	180	200	20	11.1	30
133	281050	ADJUDICATORS, JUDICIAL REVIEWERS	830	940	110	13.3	120
134	281080	LAWYERS	3,570	3,690	120	3.4	470
135	283000	LEGAL ASSTS, TECHS, EX CLERICAL	2,620	2,730	110	4.2	140
136	283020	LAW CLERKS	380	370	-10	-2.6	50
137	283050	PARALEGAL PERSONNEL	850	880	30	3.5	30
138	283080	TITLE SEARCHERS	170	180	10	5.9	10
139	283110	TITLE EXAMINERS AND ABSTRACTORS	180	190	10	5.6	10
140	283990	LEGAL ASSTS, TECHS--EX CLER, NEC	1,040	1,110	70	6.7	40
141	310000	TEACHERS, EDUCATORS, LIBRARIANS	55,640	59,510	3,870	7.0	6,220
142	311000	POST-SECONDARY TEACHERS	9,440	10,280	840	8.9	2,240
144	311140	NURSING INSTRUCTORS	360	400	40	11.1	10
145	311170	GRADUATE ASSISTANTS, TEACHING	1,670	1,840	170	10.2	410
146	312020	LIFE SCIENCES TEACHERS	870	950	80	9.2	220
147	312040	CHEMISTRY TEACHERS	110	120	10	9.1	30
148	312060	PHYSICS TEACHERS	290	310	20	6.9	70
149	312090	PHYSICAL SCIENCE TEACHERS, NEC	140	150	10	7.1	40
150	312100	SOCIAL SCIENCE TEACHERS	910	990	80	8.8	220
151	312120	HEALTH SPECIALITIES TEACHERS	730	800	70	9.6	180
152	312160	ENGLISH, FOREIGN LANGUAGE TEACHERS	740	790	50	6.8	180
153	312180	ART, DRAMA, MUSIC TEACHERS	600	650	50	8.3	150
154	312220	ENGINEERING TEACHERS	180	200	20	11.1	40
155	312240	MATHEMATICAL SCIENCES TEACHERS	330	350	20	6.1	80
156	312260	COMPUTER SCIENCE TEACHERS	260	280	20	7.7	60
157	312990	POSTSECONDARY TEACHERS, NEC	2,250	2,450	200	8.9	550

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
158	313000	OTHER TEACHERS AND INSTRUCTORS	30,640	32,620	1,980	6.5	2,440
159	313020	TEACHERS, PRESCHOOL & KINDERGARTEN	2,060	2,420	360	17.5	70
160	313050	TEACHERS--ELEMENTARY SCHOOL	9,460	9,840	380	4.0	1,130
161	313080	TEACHERS--SECONDARY SCHOOL	5,460	5,700	240	4.4	740
162	313110	TEACHERS--SPECIAL EDUCATION	2,100	2,190	90	4.3	80
163	313140	TEACHERS--VOC ED AND TRAINING	2,040	2,250	210	10.3	70
164	313170	INSTRUCTORS--NON-VOC EDUCATION	5,790	6,160	370	6.4	210
165	313210	INSTRUCTORS AND COACHES--SPORTS	3,190	3,460	270	8.5	120
167	313990	TEACHERS AND INSTRUCTORS, NEC	540	600	60	11.1	20
168	315000	LIBRARIANS, ARCHIVISTS AND RELATED	15,560	16,610	1,050	6.7	1,540
169	315020	LIBRARIANS--PROFESSIONAL	740	800	60	8.1	100
170	315050	TECHNICAL ASSISTANTS--LIBRARY	800	850	50	6.3	70
173	315140	VOCATIONAL & EDUC COUNSELOR	1,280	1,450	170	13.3	150
174	315170	INSTRUCTIONAL COORDINATORS	460	500	40	8.7	20
175	315211	INSTRUCTIONAL AIDES	12,280	13,010	730	5.9	1,200
176	320000	HEALTH PRACTITIONERS, TECHS, RELAT	41,530	49,100	7,570	18.2	5,030
177	321000	HEALTH DIAGNOSING, TREATING	6,810	7,950	1,140	16.7	1,170
178	321020	PHYSICIANS AND SURGEONS	4,710	5,540	830	17.6	820
179	321050	DENTISTS	980	1,170	190	19.4	170
180	321080	OPTOMETRISTS	190	230	40	21.1	30
182	321130	CHIROPRACTORS	250	300	50	20.0	40
183	321140	VETS AND VETERINARY INSPECTORS	680	710	30	4.4	110
185	323000	THERAPISTS	2,380	2,940	560	23.5	400
186	323020	RESPIRATORY CARE PRACTITIONERS	830	1,040	210	25.3	140
187	323050	OCCUPATIONAL THERAPISTS	410	480	70	17.1	70
188	323080	PHYSICAL THERAPISTS	680	890	210	30.9	120
190	323140	SPEECH PATHOLOGISTS, AUDIOLOGISTS	310	360	50	16.1	.50
191	323170	RECREATIONAL THERAPISTS	150	170	20	13.3	20
193	325000	HEALTH CARE MAINTENANCE, TREATING	22,750	26,740	3,990	17.5	2,500
194	325020	REGISTERED NURSES	15,570	18,330	2,760	17.7	1,570
195	325050	LICENSED VOCATIONAL NURSES	4,040	4,870	830	20.5	490
196	325080	EMERGENCY MEDICAL TECHNICIANS	610	670	60	9.8	30
197	325110	PHYSICIAN'S ASSISTANTS	610	680	70	11.5	70
198	325140	OPTICIANS--DISPENSING, MEASURING	530	600	70	13.2	110
199	325170	PHARMACISTS	960	1,100	140	14.6	170
201	325210	DIETITIANS AND NUTRITIONISTS	300	340	40	13.3	40
202	325230	DIETETIC TECHNICIANS	130	150	20	15.4	20

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
203	329000	OTHER HEALTH PROFS, PARAPROFS	9,590	11,470	1,880	19.6	960
204	329020	MED, CLINICAL LAB TECHNOLOGISTS	1,840	2,040	200	10.9	260
205	329050	MED, CLINICAL LAB ASSISTANTS	750	910	160	21.3	110
206	329080	DENTAL HYGIENISTS	920	1,160	240	26.1	120
207	329110	MEDICAL RECORDS TECHNICIANS	670	790	120	17.9	80
208	329140	NUCLEAR MEDICINE TECHNOLOGISTS	120	140	20	16.7	10
210	329210	RADIOLOGIC TECHNOLOGIST,DIAGNOSTIC	1,070	1,370	300	28.0	140
212	329250	CARDIOLOGY TECHNOLOGISTS	150	190	40	26.7	10
213	329260	ELECTROCARDIOGRAPH TECHNICIANS	140	160	20	14.3	10
214	329280	SURGICAL TECHNICIANS	280	330	50	17.9	10
215	329310	PSYCHIATRIC TECHNICIANS	270	360	90	33.3	30
217	329990	HEALTH CARE PROFS, PARAPROFS, NEC	3,380	4,020	640	18.9	180
218	340000	WRITERS, ARTISTS, ENTER, ATHLETES	9,230	10,240	1,010	10.9	1,190
219	340020	WRITERS AND EDITORS	1,160	1,250	90	7.8	130
220	340050	TECHNICAL WRITERS	600	650	50	8.3	80
221	340080	PUB REL SPECS, PUBLICITY WRITERS	790	870	80	10.1	180
222	340110	REPORTERS AND CORRESPONDENTS	470	510	40	8.5	50
224	340170	ANNOUNCERS--RADIO AND TELEVISION	200	190	-10	-5.0	30
226	340230	PHOTOGRAPHERS	390	440	50	12.8	60
228	340280	BROADCAST TECHNICIANS	250	230	-20	-8.0	30
230	340350	ARTISTS AND RELATED WORKERS	1,130	1,320	190	16.8	160
231	340381	FLORAL DESIGNERS	390	420	30	7.7	30
232	340382	DESIGNERS, EX INTERIOR AND FLORAL	1,400	1,560	160	11.4	120
233	340410	INTERIOR DESIGNERS	480	580	100	20.8	40
234	340440	MERCH DISPLAYERS, WINDOW TRIMMERS	440	470	30	6.8	40
235	340470	MUSIC DIRECTORS, SINGERS,COMPOSERS	190	210	20	10.5	30
236	340510	MUSICIANS--INSTRUMENTAL	640	730	90	14.1	110
237	340530	DANCERS AND CHOREOGRAPHERS	160	190	30	18.8	20
238	340560	PRODUCERS, DIRECTORS, ACTORS	270	290	20	7.4	40
239	340580	ATHLETES, COACHES, UMPSES, RELATED	270	330	60	22.2	40
240	390000	MISC PROFS, PARAPROFS, TECHNICAL	10,360	11,170	810	7.8	940
241	390020	AIR DISPATCHERS, AIR TRAFFIC CONTR	260	250	-10	-3.8	30
246	399990	OTHER PROF, PARAPROF, TECHNICAL	10,100	10,920	820	8.1	910
247	400000	SALES AND RELATED OCCUPATIONS	111,760	127,030	15,270	13.7	26,710
248	410000	FIRST-LINE SUP/MGR--SALES	12,470	14,110	1,640	13.2	1,430

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**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
249	430000	SALES AGENTS--SERVICE	9,870	11,040	1,170	11.9	1,480
250	430020	SALES AGENTS, PLACERS--INSURANCE	2,330	2,590	260	11.2	440
251	430050	BROKERS--REAL ESTATE	350	380	30	8.6	40
252	430080	SALES AGENTS--REAL ESTATE	1,490	1,650	160	10.7	150
253	430110	APPRAISERS--REAL ESTATE	450	490	40	8.9	50
254	430140	SALES AGENTS--FINANCIAL SERVICES	720	790	70	9.7	50
255	430170	SALES AGENTS--SEL BUS SERVICES	1,530	1,780	250	16.3	120
256	430210	TRAVEL AGENTS	1,260	1,400	140	11.1	330
257	430230	SALES AGENTS--ADVERTISING	1,100	1,240	140	12.7	130
258	430990	SALES REPS, SERVICE--NEC	640	720	80	12.5	170
259	490000	MERCH, PRODUCTS AND OTHER SALES	89,420	101,880	12,460	13.9	23,800
260	490020	SALES ENGINEERS	670	730	60	9.0	90
261	490050	SALES REPS, SCIENTIFIC--EX RETAIL	2,910	3,270	360	12.4	450
262	490080	SALES REPS, NON-SCIENTIFIC EX RET	8,970	10,020	1,050	11.7	1,380
263	490111	VEHICLE SALESPERSONS - RETAIL	2,270	2,570	300	13.2	630
264	490112	SALESPERSONS - RETAIL(NON-VEHICLE)	33,020	36,850	3,830	11.6	9,130
265	490140	SALESPERSONS--PARTS	2,160	2,480	320	14.8	470
266	490170	COUNTER AND RENTAL CLERKS	2,250	2,630	380	16.9	270
267	490210	STOCK CLERKS--SALES FLOOR	8,440	9,750	1,310	15.5	2,280
268	490230	CASHIERS	23,620	27,500	3,880	16.4	8,200
269	490260	TELEMARKETER, SOLICITOR & RELATED	1,590	1,820	230	14.5	290
270	490320	DEMONSTRATORS, PROMOTERS, MODELS	610	770	160	26.2	110
271	499990	SALES AND RELATED WORKERS, NEC	2,910	3,490	580	19.9	500
272	500000	CLERICAL, ADMINISTRATIVE SUPPORT	200,340	217,080	16,740	8.4	29,780
273	510000	FIRST-LINE SUP/MGR, CLERL, ADM SUP	13,910	15,110	1,200	8.6	2,340
274	530000	INDUSTRY SPECIFIC CLERICAL, ADMIN	27,010	28,750	1,740	6.4	4,800
275	531000	BANKING, SECURITY, FINANCE, CREDIT	15,580	16,210	630	4.0	3,390
276	531020	TELLERS	8,240	8,300	60	0.7	2,770
277	531050	NEW ACCOUNTS CLERKS	1,460	1,530	70	4.8	290
279	531110	LOAN INTERVIEWERS	450	480	30	6.7	30
280	531140	CREDIT AUTHORIZERS	120	140	20	16.7	0
281	531170	CREDIT CHECKERS	350	400	50	14.3	20
282	531210	LOAN AND CREDIT CLERKS	1,890	1,990	100	5.3	50
283	531230	ADJUSTMENT CLERKS	2,610	2,920	310	11.9	170

**TABLE 6**  
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**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
284	531260	STATEMENT CLERKS	130	130	0	0.0	20
285	531280	BROKERAGE CLERKS	330	320	-10	-3.0	40
286	533000	INSURANCE WORKERS	2,870	3,110	240	8.4	120
287	533020	INS ADJUST, EXAMIN, INVESTIGATORS	1,030	1,120	90	8.7	50
290	533110	INSURANCE CLAIMS CLERKS	660	730	70	10.6	40
291	533140	INSURANCE POLICY PROCESSING CLERKS	1,180	1,260	80	6.8	30
292	535000	INVESTIGATIVE, RELATED, EX INSUR	2,840	3,180	340	12.0	390
293	535020	WELFARE ELIG WORKERS, INTERVIEWERS	1,350	1,510	160	11.9	300
295	535080	BILL AND ACCOUNT COLLECTORS	1,490	1,670	180	12.1	90
296	537000	MUNICIPAL WORKERS	900	1,010	110	12.2	30
297	537020	COURT CLERKS	900	1,010	110	12.2	30
300	538000	LODGING AND TRAVEL WORKERS	2,590	2,870	280	10.8	330
301	538020	TRAVEL CLERKS	200	210	10	5.0	20
302	538050	RESERVATION, TRANS TICKET AGENTS	1,180	1,230	50	4.2	130
303	538080	HOTEL DESK CLERKS	1,210	1,430	220	18.2	180
304	539000	MISC INDUSTRY SPECIFIC CLERICAL	2,230	2,370	140	6.3	540
305	539020	LIBRARY ASSTS & BOOKMOBILE DRIVERS	1,330	1,390	60	4.5	420
306	539080	ADVERTISING CLERKS	200	220	20	10.0	40
307	539110	PROOFREADERS AND COPY MARKERS	380	410	30	7.9	50
308	539140	REAL ESTATE CLERKS	320	350	30	9.4	30
309	550000	SECRETARIAL, GENERAL OFFICE OCCS	109,420	120,080	10,660	9.7	16,120
310	551000	SECRETARIES	26,740	29,290	2,550	9.5	4,430
311	551020	SECRETARIES, LEGAL	2,640	2,710	70	2.7	420
312	551050	SECRETARIES, MEDICAL	2,030	2,490	460	22.7	360
313	551080	SECRETARIES, GENERAL	22,070	24,090	2,020	9.2	3,650
314	553000	MISC SECRETARIAL, GENL OFF OCCS	82,680	90,790	8,110	9.8	11,690
315	553020	STENOGRAPHERS	580	610	30	5.2	90
316	553050	RECEPTIONISTS, INFORMATION CLERKS	9,990	11,750	1,760	17.6	1,200
317	553070	TYPISTS, INCLUDING WORD PROCESSING	7,810	8,710	900	11.5	1,130
318	553140	PERS CLERKS--EX PAYROLL	1,360	1,460	100	7.4	240
320	553210	FILE CLERKS	2,580	2,820	240	9.3	810
321	553230	ORDER CLERKS--MATERIALS, SERVICE	2,620	2,910	290	11.1	480
322	553260	PROCUREMENT CLERKS	770	740	-30	-3.9	110
323	553280	STATISTICAL CLERKS	620	640	20	3.2	100
324	553320	INTERVIEW CLERKS--EX PERS, WELFARE	930	1,040	110	11.8	190

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**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
325	553350	CUSTOMER SERVICE REPS--UTILITIES	1,710	1,740	30	1.8	300
326	553380	BOOKKEEPING, ACCOUNTING CLERKS	18,370	19,120	750	4.1	2,630
327	553410	PAYROLL AND TIMEKEEPING CLERKS	1,800	1,870	70	3.9	430
328	553440	BILLING, COST, AND RATE CLERKS	2,650	2,940	290	10.9	640
329	553470	GENERAL OFFICE CLERKS	30,890	34,440	3,550	11.5	3,340
330	560000	EDP AND OFFICE MACHINE OCCUPATIONS	8,590	9,640	1,050	12.2	1,270
331	560020	BILLING, POSTING, CALC MACHINE OPS	1,060	1,160	100	9.4	340
332	560050	DUPLICATING MACHINE OPERATORS	450	540	90	20.0	150
333	560080	MAIL MACH OPS--PREP AND HANDLING	390	450	60	15.4	100
334	560110	COMPUTER OPS--EX PERIPHERAL EQUIP	2,020	2,170	150	7.4	100
335	560140	PERIPHERAL EDP EQUIPMENT OPERATORS	130	130	0	0.0	10
336	560170	DATA ENTRY KEYERS--EX COMPOSING	3,760	4,350	590	15.7	400
337	560210	DATA KEYERS--COMPOSING	130	140	10	7.7	10
338	560990	OFFICE MACHINE OPERATORS, NEC	650	700	50	7.7	160
339	570000	COMMUNICATIONS, MAIL DISTRIBUTION	9,890	9,890	0	0.0	1,670
340	571000	COMMUNICATION EQUIPMENT OPERATORS	3,080	3,040	-40	-1.3	590
341	571020	SWITCHBOARD OPERATORS	2,370	2,500	130	5.5	470
343	571080	CENTRAL OFFICE OPERATORS	710	540	-170	-23.9	120
346	573000	MAIL, MESSAGE DISTRIBUTION WORKERS	6,810	6,850	40	0.6	1,080
347	573020	MAIL CLKS-EX MAIL MACH OPS, POSTAL	960	990	30	3.1	260
348	573050	POSTAL MAIL CARRIERS	3,260	3,210	-50	-1.5	430
349	573080	POSTAL SERVICE CLERKS	1,040	970	-70	-6.7	120
350	573110	MESSENGERS	1,550	1,680	130	8.4	270
351	580000	MATERIAL RECORDING, DISPATCHING	24,100	25,900	1,800	7.5	3,320
352	580020	DISPATCH--POLICE, FIRE, AMBULANCE	360	410	50	13.9	50
353	580050	DISPATCH--EX POLICE, FIRE, AMBULANCE	1,320	1,470	150	11.4	180
354	580080	PROD, PLANNING, EXPEDITING CLERKS	3,140	3,120	-20	-0.6	530
355	580110	TRANSPORTATION AGENTS	660	670	10	1.5	60
356	580140	METER READERS--UTILITIES	400	380	-20	-5.0	60
357	580170	WEIGHER, MEASURER--RECORDKEEPING	110	110	0	0.0	30
358	580210	MARKING CLERKS	640	670	30	4.7	100
359	580230	STOCK CLERK--STOCKROOM, WAREHOUSE	8,310	8,800	490	5.9	1,260
360	580260	ORDER FILLERS--WHLE & RET SALES	1,230	1,390	160	13.0	230
361	580280	TRAFFIC, SHIPPING, RECEIVING CLKS	7,180	7,740	560	7.8	640
362	580990	MATERIAL RECORDING, RELATED, NEC	750	1,140	390	52.0	180

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
363	590000	CLERICAL, ADMIN SUPPORT, NEC	7,420	7,710	290	3.9	260
365	600000	SERVICE OCCUPATIONS	160,110	189,870	29,760	18.6	46,260
366	610000	FIRST-LINE SUP/MGR--SERVICE	7,810	9,290	1,480	19.0	1,270
367	610020	FIRE FIGHTING & PREVENTION SUPS	540	590	50	9.3	140
368	610050	POLICE AND DETECTIVE SUPERVISORS	750	810	60	8.0	190
369	610080	HOUSEKEEPING SUPERVISORS	1,320	1,550	230	17.4	250
370	610990	FIRST-LINE SUP/MGR SERV WKRS, NEC	5,200	6,340	1,140	21.9	690
371	630000	PROTECTIVE SERVICE OCCUPATIONS	17,610	20,160	2,550	14.5	4,370
374	630080	FIRE FIGHTERS	1,430	1,560	130	9.1	340
376	630140	POLICE PATROL OFFICERS	3,020	3,280	260	8.6	710
377	630170	CORRECTION OFFICERS, JAILERS	1,550	1,900	350	22.6	130
378	630210	PARKING ENFORCEMENT OFFICERS	130	140	10	7.7	20
381	630280	CRIMINAL INVESTIGATORS, FEDERAL	570	560	-10	-1.8	130
382	630320	SHERIFFS AND DEPUTY SHERIFFS	1,150	1,250	100	8.7	210
383	630350	DETECTIVES, INVESTIGATORS--EX PUB	480	570	90	18.8	80
386	630440	CROSSING GUARDS	120	120	0	0.0	30
387	630470	GUARDS AND WATCH GUARDS	7,110	8,490	1,380	19.4	1,250
388	630990	PROTECTIVE SERVICE WORKERS, NEC	2,050	2,290	240	11.7	1,470
389	650000	FOOD, BEV PREP AND SERVICE OCCS	87,220	105,570	18,350	21.0	34,050
390	650020	HOSTS, HOSTESSES--RESTAURANTS	2,670	3,160	490	18.4	260
391	650050	BARTENDERS	3,130	3,500	370	11.8	800
392	650080	WAITERS AND WAITRESSES	18,110	21,990	3,880	21.4	6,590
393	650110	FOOD SERVERS--OUTSIDE	1,280	1,440	160	12.5	990
394	650140	DINING RM ATTENDANTS, BAR HELPERS	6,100	7,410	1,310	21.5	3,260
395	650170	COUNTER ATTENDANTS--FOOD	3,520	4,320	800	22.7	2,840
396	650210	BAKERS--BREAD AND PASTRY	1,260	1,550	290	23.0	280
397	650230	BUTCHERS AND MEAT CUTTERS	1,280	1,420	140	10.9	270
398	650260	COOKS--RESTAURANT	6,350	8,030	1,680	26.5	1,430
399	650280	COOKS--INSTITUTION OR CAFETERIA	1,630	1,860	230	14.1	350
400	650320	COOKS--SPECIALTY FAST FOOD	4,770	5,830	1,060	22.2	2,620
401	650350	COOKS--SHORT ORDER	1,350	1,640	290	21.5	740
402	650380	FOOD PREPARATION WORKERS	12,540	14,780	2,240	17.9	4,720
403	650410	COMBINED FOOD PREP AND SERVICE	20,520	25,550	5,030	24.5	7,960
404	650990	FOOD SERVICE WORKERS, NEC	2,710	3,090	380	14.0	940

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
405	660000	HEALTH SERVICE, RELATED OCCS	12,230	14,800	2,570	21.0	1,200
406	660020	DENTAL ASSISTANTS	1,890	2,300	410	21.7	320
407	660050	MEDICAL ASSISTANTS	1,940	2,390	450	23.2	120
408	660080	NURSE AIDES, ORDERLIES, ATTENDANTS	5,650	6,780	1,130	20.0	550
409	660110	HOME HEALTH CARE WORKERS	520	660	140	26.9	60
410	660140	PSYCHIATRIC AIDES	410	510	100	24.4	40
411	660170	PHYSICAL THERAPY ASSISTANTS & AIDES	640	790	150	23.4	40
414	660210	OCCUPATIONAL THERAPY ASSISTANTS	100	130	30	30.0	10
416	660260	PHARMACY ASSISTANTS	330	370	40	12.1	20
417	660990	HEALTH SERVICE WORKERS, NEC	750	870	120	16.0	40
418	670000	CLEANING, BLDING SERV EX PRIV HOUSE	21,800	24,660	2,860	13.1	3,230
419	670020	MAIDS AND HOUSEKEEPING CLEANERS	6,520	7,440	920	14.1	710
420	670050	JANITORS, CLEANERS--EXCEPT MAIDS	13,430	15,060	1,630	12.1	2,220
421	670080	PEST CONTROLLERS AND ASSISTANTS	660	830	170	25.8	110
423	670990	CLEANING, BLDING SERV--EX PH, NEC	1,190	1,330	140	11.8	190
424	680000	MISC PERSONAL SERVICE OCCUPATIONS	9,630	11,030	1,400	14.5	1,760
425	680020	BARBERS	120	130	10	8.3	20
426	680050	HAIRDRESSERS, HAIRSTYLISTS	2,800	3,020	220	7.9	200
427	680080	MANICURISTS	170	180	10	5.9	10
429	680140	AMUSEMENT, RECREATION ATTENDANTS	1,860	2,180	320	17.2	670
430	680170	GUIDES	420	470	50	11.9	150
431	680210	USHERS, LOBBY ATTENDANTS	1,050	1,250	200	19.0	380
432	680230	BAGGAGE PORTERS AND BELLHOPS	470	550	80	17.0	60
433	680260	FLIGHT ATTENDANTS	810	880	70	8.6	120
436	680350	PERSONAL AND HOME CARE AIDES	540	690	150	27.8	60
437	680380	CHILD CARE WORKERS	1,390	1,680	290	20.9	90
439	690000	MISC SERVICE WORKERS	3,810	4,360	550	14.4	380
440	700000	AGRICULTURAL, FORESTRY, FISHING	12,470	13,690	1,220	9.8	1,680
449	790000	MISC AG, FORESTRY, FISHING	12,470	13,690	1,220	9.8	1,680
450	790020	FOREST, CONSERVATION WORKERS	270	280	10	3.7	60
451	790050	NURSERY WORKERS	1,360	1,630	270	19.9	320
453	790110	GRADERS, SORTERS--AG PRODUCTS	280	320	40	14.3	50
454	790140	GARDENER, GROUNDSKEEPER-EX FARM	9,080	9,760	680	7.5	950

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
455	790170	ANIMAL CARETAKERS--EXCEPT FARM	450	510	60	13.3	60
457	790990	OTHER AG, FORESTRY, FISHING	1,030	1,190	160	15.5	240
460	800000	PROD, CONST, OPER, MAT HANDLING	215,870	228,760	12,890	6.0	32,480
461	810000	FIRST-LINE SUP/MGR-BLUE COLLAR	12,490	13,040	550	4.4	2,260
462	810020	FIRST-LINE SUP/MGR-MECH, REPAIRERS	3,150	3,410	260	8.3	730
463	810050	FIRST-LINE SUP/MGR-CONSTRUCTION	2,610	2,670	60	2.3	390
464	810080	FIRST-LINE SUP/MGR-PRODUCTION	3,740	3,710	-30	-0.8	690
465	810110	FIRST-LINE SUP/MGR-TRANSPORTATION	580	610	30	5.2	90
466	810170	FIRST-LINE SUP/MGR-HELP, LABORERS	680	730	50	7.4	110
467	810990	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	1,730	1,910	180	10.4	250
468	830000	INSPECTORS, RELATED OCCUPATIONS	5,660	5,600	-60	-1.1	930
469	830020	INSPECTORS,TESTERS,& GRADERS,PRECI	2,900	2,710	-190	-6.6	460
470	830050	PROD INSPECTORS, TESTERS, & GRADER	2,140	2,230	90	4.2	360
472	830990	INSPECTORS, TESTERS, RELATED, NEC	620	660	40	6.5	110
473	850000	MECHANICS, INSTALLERS, REPAIRERS	37,200	40,750	3,550	9.5	5,560
474	851000	MACHINERY AND RELATED MECHANICS	11,730	12,830	1,100	9.4	1,230
479	851180	MAINT MECHANICS--WATER, POWER	170	180	10	5.9	30
480	851190	MACHINERY MAINT MECHANICS, NEC	1,200	1,260	60	5.0	180
481	851230	MILLWRIGHTS	150	150	0	0.0	30
483	851280	MACHINERY MAINTENANCE WORKERS	230	230	0	0.0	30
484	851320	MAINT REPAIRERS, GENL UTILITY	9,980	11,010	1,030	10.3	960
485	853000	MOBILE EQUIP MECHANICS, REPAIRERS	12,350	13,670	1,320	10.7	2,460
486	853020	AUTOMOTIVE MECHANICS	5,920	6,790	870	14.7	1,290
487	853050	AUTOMOTIVE BODY, RELATED REPAIRERS	1,510	1,750	240	15.9	300
488	853080	MOTORCYCLE REPAIRERS	140	150	10	7.1	30
489	853110	BUS AND TRUCK MECHANICS	1,280	1,420	140	10.9	260
490	853140	MOBILE HEAVY EQUIP MECH--EX ENGINE	1,040	1,190	150	14.4	220
491	853170	RAIL CAR REPAIRERS	240	250	10	4.2	50
493	853230	AIRCRAFT MECHANICS	1,930	1,850	-80	-4.1	270
494	853260	AIRCRAFT ENGINE SPECIALISTS	290	270	-20	-6.9	40
497	855000	COMM EQUIPMENT MECHANICS	300	300	0	0.0	30
498	855020	CENTRAL OFFICE AND PBX INSTALLERS	180	180	0	0.0	20
502	855140	RADIO MECHANICS	120	120	0	0.0	10

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
504	857000	OTHER ELECTRICAL EQUIP MECHANICS	6,170	6,350	180	2.9	920
505	857020	TELEPHONE, CABLE TV INSTALLERS	1,270	1,140	-130	-10.2	160
506	857050	DATA PROCESSING EQUIP REPAIRERS	500	630	130	26.0	20
507	857080	ELECT HOME ENTERTAINMENT REPAIRERS	530	630	100	18.9	70
508	857111	HOME APPLIANCE AND POWER TOOL REP	390	430	40	10.3	90
509	857140	ELECT MOTOR, AND RELATED REPAIRERS	130	140	10	7.7	20
510	857170	ELECT REPAIRERS--COMMERCIAL	770	770	0	0.0	90
512	857230	ELECT POWERLINE INSTALLERS	1,280	1,330	50	3.9	280
513	857260	STATION INSTALLERS--TELEPHONE	470	460	-10	-2.1	60
514	857280	ELEC INSTALLERS--TRANS EQUIPMENT	450	440	-10	-2.2	70
515	857990	ELECT EQUIP MECHANICS, NEC	380	380	0	0.0	60
516	859000	MISC MECH, INSTALLERS, REPAIRERS	6,650	7,600	950	14.3	920
517	859020	HEATING, AC, REFRIG MECHANICS	1,460	1,520	60	4.1	110
518	859050	INSTRUMENT REPAIRERS, PRECISION	380	390	10	2.6	60
520	859110	ELECT METER INSTALLERS, REPAIRERS	240	260	20	8.3	40
524	859230	LOCKSMITHS AND SAFE REPAIRERS	200	220	20	10.0	30
525	859260	OFF MACH, CASH REGISTER SERVICERS	380	430	50	13.2	60
526	859280	MECH CONTROL, VALVE INSTALLERS	260	280	20	7.7	40
528	859350	RIGGERS	360	370	10	2.8	30
529	859380	INSTALLER & REPAIRER, MOBILE HOME	200	210	10	5.0	20
530	859470	COIN, VENDING MACHINE SERVICERS	190	210	20	10.5	20
531	859510	BICYCLE REPAIRERS	120	120	0	0.0	10
532	859530	TIRE REPAIRERS AND CHANGERS	610	680	70	11.5	230
534	859990	MECHS, INSTALLERS, REPAIRERS, NEC	2,250	2,910	660	29.3	270
535	870000	CONSTRUCTION TRADES	34,450	35,400	950	2.8	4,690
536	871000	CARPENTERS AND RELATED WORKERS	11,740	11,930	190	1.6	1,330
537	871020	CARPENTERS	7,750	7,920	170	2.2	940
539	871080	DRYWALL INSTALLERS	2,120	2,150	30	1.4	210
540	871110	TAPERS	1,120	1,130	10	0.9	110
541	871140	LATHERS	750	730	-20	-2.7	70
543	872000	ELECTRICIANS AND RELATED WORKERS	3,650	3,770	120	3.3	540
544	872020	ELECTRICIANS	3,650	3,770	120	3.3	540
545	873000	MASONS AND RELATED WORKERS	4,840	4,860	20	0.4	870
546	873020	BRICK MASONS	680	690	10	1.5	90
547	873050	STONE MASONS	110	110	0	0.0	20
548	873080	HARD TILE SETTERS	630	640	10	1.6	90
549	873110	CONCRETE AND TERRAZZO FINISHERS	1,920	1,940	20	1.0	460

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**

**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
						OPENINGS DUE TO SEPARATIONS	
550	873140	REINFORCING METAL WORKERS	360	360	0	0.0	50
551	873170	PLASTERERS AND STUCCO MASONS	1,140	1,120	-20	-1.8	160
552	874000	PAINTERS AND RELATED WORKERS	2,770	2,850	80	2.9	380
553	874020	PAINTERS, PAPERHANGERS-CONST	2,770	2,850	80	2.9	380
554	875000	PLUMBERS AND RELATED WORKERS	4,520	4,700	180	4.0	640
555	875020	PLUMBERS, PIPEFITTERS, STEAMFITTER	3,710	3,810	100	2.7	570
557	875080	PIPELAYERS	540	580	40	7.4	50
558	875110	SEPTIC TANK, SEWER PIPE SERVICERS	270	310	40	14.8	20
559	876000	CARPET, FLOOR INSTALLERS	830	860	30	3.6	130
560	876020	CARPET INSTALLERS	640	670	30	4.7	100
561	876050	FLOOR LAYERS--EX CARPET, WOOD, TILES	190	190	0	0.0	30
563	877000	SELECTED ROAD, RAIL AND RELATED	720	780	60	8.3	100
566	877080	PAVING, TAMPING-EQUIP OPERATORS	600	640	40	6.7	90
567	877110	HIGHWAY MAINTENANCE WORKERS	120	140	20	16.7	10
569	878000	CONSTRUCTION TRADES, NEC	4,080	4,170	90	2.2	540
570	878020	INSULATION WORKERS	380	390	10	2.6	130
571	878050	SHEET METAL DUCT INSTALLERS	570	580	10	1.8	80
572	878080	ROOFERS	1,150	1,150	0	0.0	100
573	878110	GLAZIERS	600	630	30	5.0	90
574	878140	STRUCTURAL METAL WORKERS	350	350	0	0.0	50
575	878170	FENCE ERECTORS	310	330	20	6.5	30
576	878990	CONSTRUCTION TRADES WORKERS, NEC	720	740	20	2.8	60
577	879000	EXTRACTIVE AND RELATED WORKERS	1,300	1,480	180	13.8	160
590	879990	CONST, EXTRACTIVE--EX HELPERS, NEC	1,300	1,480	180	13.8	160
591	890000	PRODUCTION OCCUPATIONS, PRECISION	16,290	17,250	960	5.9	3,290
592	891000	METAL WORKERS, PRECISION	8,020	8,170	150	1.9	1,600
593	891020	TOOL AND DIE MAKERS	730	700	-30	-4.1	130
594	891050	INSTRUMENT MAKERS, PRECISION	130	130	0	0.0	20
595	891080	MACHINISTS	3,420	3,520	100	2.9	600
596	891110	TOOL GRINDERS, FILERS, SHARPENERS	390	400	10	2.6	90
598	891170	LAYOUT WORKERS--METAL, PRECISION	200	200	0	0.0	40
599	891210	SHIPFITTERS	720	760	40	5.6	170
600	891230	JEWELERS AND SILVERSMITHS	210	240	30	14.3	50
603	891320	SHEET METAL WORKERS	1,960	1,960	0	0.0	440
605	891990	METAL WORKERS, NEC--PRECISION	260	260	0	0.0	60

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
606	893000	WOODWORKERS, PRECISION	1,770	1,930	160	9.0	490
609	893080	WOOD MACHINISTS	200	230	30	15.0	60
610	893110	CABINETMAKER AND BENCH CARPENTER	1,270	1,360	90	7.1	350
611	893140	FURNITURE FINISHERS	180	210	30	16.7	50
612	893990	WOODWORKERS, NEC--PRECISION	120	130	10	8.3	30
613	895000	TEXTILE, APPAREL, FURNISHINGS,PREC	940	1,050	110	11.7	180
615	895050	CUSTOM TAILORS AND SEWERS	310	340	30	9.7	70
616	895080	UPHOLSTERERS	390	450	60	15.4	80
619	895170	PRESSERS--DELICATE FABRICS	240	260	20	8.3	30
622	897000	PRINTING WORKERS, PRECISION	1,110	1,210	100	9.0	220
624	897050	JOB PRINTERS	140	150	10	7.1	30
625	897060	PASTE UP WORKERS	330	360	30	9.1	80
629	897130	CAMERA OPERATORS	160	180	20	12.5	30
631	897170	STRIPPERS	240	260	20	8.3	40
632	897180	PLATEMAKERS	120	130	10	8.3	20
634	897210	BOOKBINDERS	120	130	10	8.3	20
636	898000	FOOD WORKERS, PRECISION	360	430	70	19.4	40
638	898050	BAKERS--MANUFACTURING	360	430	70	19.4	40
641	899000	OTHER PRECISION WORKERS	4,090	4,460	370	9.0	760
647	899170	OPTICAL GOODS WORKERS, PRECISION	110	130	20	18.2	20
648	899210	DENTAL LAB TECHNICIANS, PRECISION	420	470	50	11.9	90
649	899230	MEDICAL APPLIANCE MAKERS	100	120	20	20.0	20
651	899990	WORKERS, PRECISION--NEC	3,460	3,740	280	8.1	630
652	910000	MACH SETTERS, SET-UP, OPS, TENDERS	18,480	19,200	720	3.9	3,100
653	911000	MACH TOOL CUTTING--METAL, PLASTIC	1,680	1,520	-160	-9.5	210
655	911050	LATHE MACH SETTERS--METAL, PLASTIC	380	340	-40	-10.5	60
656	911080	DRILLING MACH SETTER--METAL,PLASTIC	270	250	-20	-7.4	40
657	911110	MILLING MACH SETTERS--METAL,PLASTIC	210	190	-20	-9.5	30
658	911140	GRINDING MACH SETTER--METAL,PLASTIC	270	250	-20	-7.4	30
659	911170	MACH TOOL CUTTING OPS--METAL,PLASTIC	550	490	-60	-10.9	50
660	913000	MACH FORMING SETTERS--METAL,PLASTIC	1,220	1,180	-40	-3.3	230
661	913020	PUNCH MACH SETTERS--METAL, PLASTIC	140	140	0	0.0	20
662	913050	PRESS MACH SETTERS--METAL, PLASTIC	290	280	-10	-3.4	40
663	913080	SHEAR MACH SETTERS--METAL, PLASTIC	100	100	0	0.0	10
667	913210	MACH FORMING OPS,TENDRS--MET, PLAST	690	660	-30	-4.3	160

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**

**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
668	915000	MACH TOOL SETTERS, OPS--METAL,PLAST	1,060	1,090	30	2.8	190
669	915020	NUMERICAL MACH TOOL OPS--MET, PLAST	560	570	10	1.8	100
670	915050	COMB MACH TOOL SETTERS--MET, PLAST	130	130	0	0.0	20
671	915080	COMB MACH TOOL OPS--METAL, PLASTIC	370	390	20	5.4	70
672	917000	METAL FABRICATING MACH SETTERS,OPS	1,010	990	-20	-2.0	160
673	917020	WELDING MACH SETTERS, SET-UP OPS	140	140	0	0.0	20
674	917050	WELDING MACH OPS AND TENDERS	180	170	-10	-5.6	30
676	917110	SOLDERING, BRAZING MACH OPS,TENDRS	250	240	-10	-4.0	30
677	917140	METAL FABRICATOR, STRUCT MET PRODS	440	440	0	0.0	80
678	919000	METAL, PLAST PROCESS MACH SETTERS	1,120	1,110	-10	-0.9	280
679	919020	PLAST MOLDING, CASTING MACH SETTER	130	130	0	0.0	30
680	919050	PLASTIC MOLDING, CASTING MACH OPS	400	430	30	7.5	100
681	919080	METAL MOLDING, MACH SETTER, SET-UP	120	120	0	0.0	30
682	919110	METAL MOLDING MACH OPS AND TENDERS	110	100	-10	-9.1	30
684	919170	ELECTROLYTIC PLATING, MACH SETTER	120	110	-10	-8.3	30
685	919210	ELECTROLYTIC PLATING, MACH OPS	240	220	-20	-8.3	60
693	921000	METAL, PLAST MACH SETTERS, OPS NEC	500	500	0	0.0	130
694	921970	CUT, FORM, FAB, PROC MACH SETTER	150	150	0	0.0	40
695	921980	CUT, FORM, FAB, PROCESS MACH OPS	350	350	0	0.0	90
696	923000	WOODWORKING MACH SETTERS, OPS	380	420	40	10.5	80
699	923080	SAWING MACH OPS AND TENDERS	240	270	30	12.5	50
701	923140	WOODWORK MACH OPS,TNDR--EX SAWING	140	150	10	7.1	30
702	925000	PRINTING, BINDING, RELATED WORKERS	2,350	2,600	250	10.6	370
704	925120	OFFSET LITHOGRAPHIC PRESS SETTERS	710	820	110	15.5	100
709	925240	SCREEN PRINT MACH SETTERS, SET-UP	270	280	10	3.7	50
710	925250	BINDERY MACH SETTERS, SET-UP OPS	200	200	0	0.0	40
711	925290	PRINT REL SETTERS, SET-UP OPS, NEC	180	180	0	0.0	30
713	925430	PRINTING PRESS MACHINE OPS, TENDER	770	870	100	13.0	110
715	925460	BINDERY MACHINE OPERATORS	220	250	30	13.6	40
717	927000	TEXTILE, RELATED SETTERS, OPS	4,110	4,350	240	5.8	620
719	927050	TEXTILE OPS,TNDRS--WIND,TWIST,KNIT	130	70	-60	-46.2	20
723	927170	SEWING MACHINE OPS--GARMENT	1,710	1,780	70	4.1	260
724	927210	SEWING MACHINE OPS--NON-GARMENT	730	780	50	6.8	110
726	927260	LNDRY, DRYCLEAN MACH OPS--EX PRESS	1,030	1,160	130	12.6	120
727	927280	PRESSING MACH OPS--TEXTILE, GARMENT	510	560	50	9.8	110
728	929000	MACH SETTER,SET-UP,OP--EX MET,PLAST	5,050	5,440	390	7.7	830

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
731	929080	PHOTOGRAPHIC PROC MACH OPS, TNDRS	490	610	120	24.5	130
735	929210	ROASTING, BAKING MACH OPS--FOOD	110	120	10	9.1	20
743	929440	CUTTING, SLICING MACH OPS, TNDRS	110	110	0	0.0	20
744	929470	PAINTERS, TRANSPORTATION EQUIP	360	380	20	5.6	80
745	929510	PAINT, COAT & SPRAY MACH SETTERS	200	190	-10	-5.0	40
746	929530	PAINTING, REL MACH OPS, TENDERS	320	320	0	0.0	70
748	929580	CLEANING, PICKLING EQUIP OPS, TNDRS	150	150	0	0.0	30
750	929650	CRUSHING, MIXING MACH OPS, TNDRS	460	480	20	4.3	80
752	929710	EXTRUDING, FORMING MACH OPS, TNDRS	230	250	20	8.7	40
753	929740	PACKAGING, FILLING MACH OPS, TNDRS	1,350	1,540	190	14.1	180
754	929970	MACHINE SETTERS & SET-UP OPS, NEC	300	300	0	0.0	30
755	929980	MACHINE OPS AND TENDERS, NEC	970	990	20	2.1	110
756	930000	ASSEMBLERS AND FABRICATORS--HAND	29,230	29,560	330	1.1	3,740
757	931000	ASSEMBLERS, PRECISION	5,280	4,750	-530	-10.0	890
758	931020	AIRCRAFT ASSEMBLERS--PRECISION	1,300	1,120	-180	-13.8	270
759	931050	MACH BLDR, OTH PREC MACH ASSEMBLER	410	400	-10	-2.4	90
760	931080	FITTERS, STRUCTURAL METAL--PREC	270	270	0	0.0	60
761	931110	ELECTROMECH EQUIP ASSEMBLER--PREC	570	510	-60	-10.5	80
762	931140	ELECTRICAL EQUIP ASSEMBLERS--PREC	2,480	2,200	-280	-11.3	330
764	931970	ASSEMBLERS, NEC--PRECISION	250	250	0	0.0	60
765	939000	OTHER HAND WORKERS	23,950	24,810	860	3.6	2,850
766	939020	MACHINE ASSEMBLERS	250	250	0	0.0	30
767	939050	ELECTRICAL, ELECTRONIC ASSEMBLERS	3,490	3,130	-360	-10.3	330
768	939080	COIL WINDERS, TAPERS, FINISHERS	180	180	0	0.0	20
770	939140	WELDERS AND CUTTERS	2,560	2,660	100	3.9	430
771	939170	SOLDERERS AND BRAZERS	380	380	0	0.0	50
772	939210	PRESSERS--HAND	120	120	0	0.0	20
774	939260	CUTTERS AND TRIMMERS--HAND	250	250	0	0.0	30
776	939320	CARPET CUTTERS, DIAGR, SEAMERS	150	160	10	6.7	20
777	939350	CANNERY WORKERS	450	520	70	15.6	60
781	939470	PAINTING, COATING, DECORATING--HAND	260	280	20	7.7	40
782	939510	ENGRAVING, PRINTING WORKERS--HAND	100	90	-10	-10.0	10
783	939530	GRINDING, POLISHING WORKERS--HAND	670	640	-30	-4.5	90
784	939560	ASSEMB, FABRICATORS--EX MACH,ELECT	10,220	10,380	160	1.6	1,020
785	939990	HAND WORKERS, NEC	4,870	5,770	900	18.5	700
786	950000	PLANT AND SYSTEM OCCUPATIONS	940	1,020	80	8.5	200
787	950020	WATER TREATMENT PLANT OPERATORS	250	270	20	8.0	50
789	950080	CHEMICAL PLANT, SYSTEM OPERATORS	170	190	20	11.8	40

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
793	950210	POWER PLANT OPS--EX AUXILIARY EQUIP	130	150	20	15.4	20
797	950320	STATIONARY ENGINEERS	210	220	10	4.8	50
798	950990	PLANT AND SYSTEM OPERATORS, NEC	180	190	10	5.6	40
799	970000	TRANS, MATERIAL MOVING MACHINE OPS	27,970	31,300	3,330	11.9	3,670
800	971000	MOTOR VEHICLE OPERATORS	18,900	21,340	2,440	12.9	1,980
801	971020	TRUCK DRIVERS, HEAVY	5,500	6,040	540	9.8	1,030
802	971050	TRUCK DRIVERS, LIGHT	7,020	8,100	1,080	15.4	110
803	971080	BUS DRIVERS	1,620	1,830	210	13.0	140
804	971110	BUS DRIVERS--SCHOOL	1,140	1,240	100	8.8	90
805	971140	TAXI DRIVERS AND CHAUFFEURS	570	670	100	17.5	40
806	971170	DRIVER/SALES WORKERS	2,410	2,780	370	15.4	480
807	971990	MOTOR VEHICLE OPERATORS, NEC	640	680	40	6.3	90
808	973000	RAIL TRANSPORTATION WORKERS	220	290	70	31.8	90
813	973140	SUBWAY AND STREETCAR OPERATORS	220	290	70	31.8	90
824	977000	AIR TRANSPORTATION WORKERS	430	440	10	2.3	80
825	977020	AIRCRAFT PILOTS, FLIGHT ENGINEERS	430	440	10	2.3	80
826	978000	MISC TRANSPORTATION WORKERS	3,570	4,000	430	12.0	940
828	978050	SERVICE STATION ATTENDANTS	1,790	2,020	230	12.8	670
829	978080	PARKING LOT ATTENDANTS	1,190	1,360	170	14.3	180
830	978990	TRANS AND RELATED WORKERS, NEC	590	620	30	5.1	90
831	979000	MATERIAL MOVEMENT EQUIP OPERATORS	4,850	5,230	380	7.8	580
839	979230	EXCAVATING, LOADING MACHINE OPS	310	310	0	0.0	40
844	979380	GRADER, DOZER, SCRAPER OPERATORS	700	710	10	1.4	90
845	979410	HOIST AND WINCH OPERATORS	100	120	20	20.0	10
846	979440	CRANE AND TOWER OPERATORS	190	200	10	5.3	50
847	979470	INDUSTRIAL TRUCK,TRACTOR OPS	1,490	1,630	140	9.4	210
850	979560	OPERATING ENGINEERS	1,270	1,350	80	6.3	120
851	979890	MATERIAL MOVING EQUIP OPS, NEC	560	660	100	17.9	40
852	979990	TRANS, MAT MOVING EQUIP OPS, NEC	230	250	20	8.7	20
853	980000	HELPERS, LABORERS, HAND--EX AG	33,160	35,640	2,480	7.5	5,040
854	981000	MECHANIC AND REPAIRER HELPERS	2,190	2,400	210	9.6	510
855	981020	MECHANIC AND REPAIRER HELPERS, NEC	2,190	2,400	210	9.6	510
856	983000	CONST TRADES, EXTRACTIVE--HELPERS	5,220	5,250	30	0.6	1,680

**TABLE 6**  
**OCCUPATIONAL EMPLOYMENT PROJECTIONS**  
**SAN DIEGO COUNTY 1990 - 1997**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1990	AVERAGES 1997	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
857	983110	HELPERS--BRICK,STONE MASONS	1,100	1,110	10	0.9	350
858	983120	HELPERS--CARPENTERS AND RELATED	1,660	1,690	30	1.8	540
859	983130	HELPERS--ELECT, POWERLINE INSTALL	400	390	-10	-2.5	130
860	983140	HELPERS--PAINTERS AND RELATED	570	570	0	0.0	180
861	983150	HELPERS--PLUMBERS AND RELATED	570	570	0	0.0	180
862	983160	HELPERS--ROOFERS	180	180	0	0.0	60
863	983190	HELPERS--CONSTRUCTION TRADES, NEC	620	630	10	1.6	200
864	983230	HELPERS--EXTRACTIVE WORKERS	120	110	-10	-8.3	40
865	985000	MACHINE FEEDERS AND OFFBEARERS	790	820	30	3.8	160
867	987000	FREIGHT, STOCK, MAT MOVERS, HAND	4,700	5,190	490	10.4	530
869	987050	REFUSE COLLECTORS	590	590	0	0.0	80
870	987990	FREIGHT, MATERIAL MOVERS-HAND, NEC	4,110	4,600	490	11.9	450
871	989000	MISC HELPERS, LABORERS--HAND	20,260	21,980	1,720	8.5	2,160
872	989020	HAND PACKERS AND PACKAGERS	4,120	4,790	670	16.3	610
873	989050	VEHICLE WASHERS, EQUIP CLEANERS	1,940	2,230	290	14.9	220
874	989990	MISC HELPERS, LABORERS--HAND, NEC	14,200	14,960	760	5.4	1,330
875		OCCUPATIONS NOT CLASSIFIED	360	310	-50	-13.9	

## DESCRIPTION OF TABLES

### Table 1 -- EMPLOYMENT BY MAJOR INDUSTRY

This table shows 1983 and 1990 estimated employment and 1997 projected employment along with the percentage of total employment for each major industry division.

**EMPLOYMENT** includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the government sector, employment includes all civilian employees regardless of their activities in which they are engaged. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system.

**INDUSTRY** is a group of firms which engage in similar economic activities. The Standard Industrial Classification (SIC) system was used to categorize industries.

**INDUSTRY DIVISIONS** group industries into nine major categories, according to the economic activity involved. An industry division refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services.

The nine industry divisions are defined as follows:

**MINING** (SIC 10-14) includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

**CONSTRUCTION** (SIC 15-17) includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

**MANUFACTURING** (SIC 20-39) includes establishments which are usually described as plants, factories, or mills that are engaged in producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

**TRANSPORTATION AND PUBLIC UTILITIES** (SIC 40-49) includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

**WHOLESALE TRADE** (SIC 50-52) includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

**RETAIL TRADE** (SIC 53-59) includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

**FINANCE, INSURANCE, AND REAL ESTATE** (SIC 60-67) includes banks, savings and loan institutions, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

**SERVICES** (SIC 70-89) includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

**GOVERNMENT** includes the legislative, judicial, administrative, and regulatory activities of federal, state, local, and international governments. It also includes federal, state, and local government hospitals and education.

### **Table 2 -- EMPLOYMENT BY INDUSTRY**

This table shows employment and projected employment by industry. The number of jobs is estimated for 1990 and projected for 1997. The column entitled "S/C" lists the Standard Industrial Classification code for each industry grouping. The column labeled "Absolute Change" provides the projected change in employment between 1990 and 1997. The "Percent Change" column is the estimated growth rate over the seven-year period.

### **Table 3 -- EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP**

This table shows 1990 and 1997 employment and projected employment for the seven major occupational groups. The "Percent of Total" column displays the percentage of total employment each major occupational group represents. The "Absolute Change" column gives the number of job opportunities resulting from the creation of new jobs. "Percent Change" shows the percentage change for each occupational group.

**OCCUPATIONAL GROUPS** are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 700 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system.

The seven major occupational groups are defined as follows:

**MANAGERS AND ADMINISTRATIVE** occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing, or controlling the activities of a firm. First-line supervisors are excluded from this category.

**PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL** occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

**SALES AND RELATED** occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

**CLERICAL AND ADMINISTRATIVE SUPPORT** occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.

SERVICE OCCUPATIONS prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

AGRICULTURAL, FORESTRY, AND FISHING occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING are skilled, semiskilled, and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair, and material handling operations.

#### **Table 4 -- OCCUPATIONS WITH THE GREATEST ABSOLUTE JOB GROWTH**

This table lists the occupations that are projected to register the largest absolute change between 1990 and 1997. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1990-1997 period.

#### **Table 5 -- OCCUPATIONS WITH THE FASTEST JOB GROWTH**

This table lists the occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and, therefore, are not found in the list of occupations that will add the most new jobs.

#### **Table 6 -- OCCUPATIONAL EMPLOYMENT PROJECTIONS**

This table provides occupational detail for up to 700 occupations. Annual average employment in each occupation is shown for 1990 and 1997. The column headed "*Absolute Change*" presents the number of job opportunities resulting from the creation of new jobs. The "*Percent Change*" column shows the percentage change for each occupation. The next column, "*Openings Due to Separations*", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

#### **Line numbers in Table 6**

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this publication may be used to locate individual occupations in the detailed table. The same line numbers are used in statewide and area reports. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment, or employment below the area's cutoff point for publishing.

# **METHODS AND ECONOMIC ASSUMPTIONS**

## **OVERVIEW**

Changes in occupational employment over time result from two principal sources. Changes in the number, size, and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances in production and changes in regulations will affect the occupational mix. In developing occupational employment projections, both of these components must be addressed. Following is a discussion of how employment projections are developed, beginning with a description of data sources followed by a description of the steps involved.

## **PRINCIPAL DATA SOURCES**

### Employment by Industry

The Employment Development Department (EDD) collects payroll data from all private employers and government entities covered under the unemployment insurance, disability insurance, and personal income tax programs. Excluded from these data are the self-employed, unpaid family workers, and private household workers. Each reporting unit is classified by EDD according to the Standard Industrial Classification (SIC) System. The SIC system consists of three levels of detail: the two-digit major industry division, the three-digit sub-industry division, and the four-digit specific industry division. All data are identified by the county in which reported jobs are located, and are collected for each month of the year.

### Occupational Staffing Patterns

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is a periodic mail survey of nonfarm employers conducted by EDD in cooperation with U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 700 occupations at the four-digit SIC level of detail.

The OES data used in this report were collected over a three-year period (1989-91), with manufacturing establishments surveyed the first year, nonmanufacturing establishments in the second year, and trade and government establishments in the third year.

## **PROJECTIONS BY INDUSTRY**

The industry projections included in this report were developed in two phases. First, projections were developed at a summary industry level based on two-digit to three-digit SIC classifications. The second phase was to disaggregate these projections to the four-digit industry level.

In the first phase, industry projections were based on the historical relationship between an area's employment in a given industry and California employment in that

industry. In the model used, area employment by industry was specified as a function of California employment in the same or a related industry, and total employment in the area. Area specific total employment was included as an independent variable to capture the employment effects accruing to an industry resulting from the expected overall performance of the local economy compared to the state over the projection period. The local total employment projection used in this phase was based on its relationship to statewide total employment over time, while the California industry projections used were developed as part of the statewide projections process.

As noted above, in the second phase of this process, the summary level industry projections were disaggregated into their four-digit components using the proportions for the base year, 1990. The resulting four-digit projections were reviewed and adjusted if it was determined that a particular four-digit industry would likely grow faster or slower than its associated summary industry total. Last, the four-digit projections were adjusted to group private and public hospital and education employment for consistency with the OES survey.

## PROJECTIONS BY OCCUPATION

The distribution of industry employment by occupation is performed in three steps. OES survey responses are summarized by industry and firm size and matched with each SIC and firm size combination in the local area. In cases where local OES responses are not available, either statewide responses or another area's responses are substituted. The survey data are then expanded to the annual average employment level for each industry. This results in estimates of employment by occupation within the four-digit SICs for the base year, 1990.

Next, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by four-digit SIC for the target year, 1997. Target year staffing patterns are applied to the industry employment projections to produce occupational employment projections within four-digit SIC. Data by occupation are then summed to get the 1990 and 1997 occupational estimates. The difference between the 1990 occupational estimates and the 1997 projections represents the net job openings resulting from industry growth and from technological and regulatory changes.

Last, it is important to account for openings that result from net separations. Net separations approximate the number of persons who permanently leave an occupation. They quantify the need for new entrants, and if training is required, identify the minimum training requirements.

There is a separation rate for each OES occupation. The rate is applied to the average estimated employment for an occupation over the projection period and yields an average annual estimate of separations in an occupation. This estimate is then multiplied by the number of years in the projection period to get the number of projected net separations for the occupation.

The Bureau of Labor Statistics has recently completed a research project that provided new separation rates. The rates were developed using a new methodology which differs significantly from that used in the past. This new method is described in *Total and Net Occupational Separations: A Report on Recent Research* (Bureau of Labor Statistics, August 1991). A copy of this report can be obtained from the Bureau of Labor Statistics, Office of Employment Projections, Washington, D.C. 20212-0001.

## **ECONOMIC ASSUMPTIONS**

The industry and occupational projections in this report are based on the following assumptions:

- a. The institutional framework of the U.S. economy will not change radically.
- b. Recent technological and scientific trends will continue.
- c. The long-term employment patterns will continue in most industries.
- d. Federal, state, and local government agencies will continue to operate under budgetary constraints.
- e. No major events will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- f. Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- g. Attitudes toward work, education, income, and leisure will not change significantly.

## ALPHABETICAL INDEX OF OCCUPATIONS

The alphabetical index of occupations is designed to aid in locating individual occupations in the detailed occupational table.

The first column of the index lists, in alphabetical order, each occupation of the detailed occupational employment table (TABLE 6).

The second column lists the line number which is used to locate individual occupations. This number is unique to each OES occupation and appears in column #1 of the detailed table.

The third column indicates the OES code of the occupation. Note that not all occupations will appear in all counties.

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	821	975140
ACCOUNTANTS AND AUDITORS	29	211140
ACCOUNTANTS, AUDIT, FINANCE SPECS	24	211000
ACTUARIES	110	253130
ADJUDICATORS, JUDICIAL REVIEWERS	133	281050
ADJUSTMENT CLERKS	283	531230
ADMINISTRATIVE SERVICES MANAGERS	7	130140
ADVERTISING CLERKS	306	539080
AERONAUT, ASTRONAUTICAL ENGINEERS	52	221020
AG, FORESTRY, FISHING--NEC	459	799990
AGRICULTURAL AND FOOD SCIENTISTS	90	243050
AGRICULTURAL ENGINEERS	59	221230
AGRICULTURAL, FORESTRY, FISHING	440	700000
AIR DISPATCHERS, AIR TRAFFIC CONTR	241	390020
AIR HAMMER OPERATORS	564	877020
AIR TRANSPORTATION WORKERS	824	977000
AIRCRAFT ASSEMBLERS--PRECISION	758	931020
AIRCRAFT ENGINE SPECIALISTS	494	853260
AIRCRAFT MECHANICS	493	853230
AIRCRAFT PILOTS, FLIGHT ENGINEERS	825	977020
AMUSEMENT, RECREATION ATTENDANTS	429	880140
ANIMAL CARETAKERS--EXCEPT FARM	455	790170
ANNOUNCERS--EX RADIO, TELEVISION	225	340210
ANNOUNCERS--RADIO AND TELEVISION	224	340170
APPRAISERS--REAL ESTATE	253	430110
ARCHITECTS AND SURVEYORS	67	223000
ARCHITECTS--EX LANDSCAPE, MARINE	68	223020
ART, DRAMA, MUSIC TEACHERS	153	312180
ARTISTS AND RELATED WORKERS	230	340350
ASSEMB, FABRICATORS--EX MACH,ELECT	784	939560
ASSEMBLERS AND FABRICATORS--HAND	756	930000
ASSEMBLERS, NEC--PRECISION	764	931970
ASSEMBLERS, PRECISION	757	931000
ASSESSORS	47	219170
ATHLETES, COACHES, UMPS, RELATED	239	340580
ATMOSPHERIC AND SPACE SCIENTISTS	85	241080

## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
AUDIO-VISUAL SPECIALISTS	171	315080
AUTOMOTIVE BODY, RELATED REPAIRERS	487	853050
AUTOMOTIVE MECHANICS	486	853020
AUXILIARY EQUIP OPERATORS--POWER	794	950230
BAGGAGE PORTERS AND BELLHOPS	432	680230
BAILIFFS	379	630230
BAKERS--BREAD AND PASTRY	396	650210
BAKERS--MANUFACTURING	638	898050
BANKING, SECURITY, FINANCE, CREDIT	275	531000
BARBERS	425	680020
BARTENDERS	391	650050
BICYCLE REPAIRERS	531	859510
BILL AND ACCOUNT COLLECTORS	295	535080
BILLING, COST, AND RATE CLERKS	328	553440
BILLING, POSTING, CALC MACHINE OPS	331	560020
BINDERY MACH SETTERS, SET-UP OPS	710	925250
BINDERY MACHINE OPERATORS	715	925460
BIOLOGICAL SCIENTISTS	91	243080
BIOLOGICAL, AGRI, FOOD TECHS	95	245020
BLASTERS AND EXPLOSIVES WORKERS	579	879050
BOILER OPS, TENDERS--LOW PRESSURE	737	929260
BOILERMAKERS	604	891350
BOOKBINDERS	634	897210
BOOKKEEPING, ACCOUNTING CLERKS	326	553380
BRATTICE BUILDERS	542	871210
BRICK MASONs	546	873020
BRIDGE, LOCK, LIGHTHOUSE TENDERS	827	978020
BROADCAST NEWS ANALYSTS	223	340140
BROADCAST TECHNICIANS	228	340280
BROKERAGE CLERKS	285	531280
BROKERS--REAL ESTATE	251	430050
BUDGET ANALYSTS	30	211170
BUS AND TRUCK MECHANICS	489	853110
BUS DRIVERS	803	971080
BUS DRIVERS--SCHOOL	804	971110
BUTCHERS AND MEAT CUTTERS	397	650230
CABINETMAKERS AND BENCH CARPENTERS	610	893110
CAMERA OPERATORS	629	897130
CAMERA OPS--TV AND MOTION PICTURE	227	340260
CAMERA, PHOTO EQUIP REPAIRERS	521	859140
CANNERY WORKERS	777	939350
CAPTAINS--WATER VESSEL	817	975020
CARDIOLOGY TECHNOLOGISTS	212	329250
CARPENTERS	537	871020
CARPENTERS AND RELATED WORKERS	536	871000
CARPET CUTTERS, DIAGR, SEAMERS	776	939320
CARPET INSTALLERS	560	876020
CARPET, FLOOR INSTALLERS	559	876000
CASHIERS	268	490230
CEILING TILE INSTALLERS	538	871050
CEMENTING, GLUING MACH OPS, TENDERS	747	929560
CENTRAL OFFICE AND PBX INSTALLERS	498	855020
CENTRAL OFFICE OPERATORS	343	571080
CHEM TECHS--EXCEPT HEALTH	96	245050

## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL ENGINEERS	56	221140
CHEMICAL EQUIP CONTROLLERS, OPS	740	929350
CHEMICAL EQUIPMENT TENDERS	741	929380
CHEMICAL PLANT, SYSTEM OPERATORS	789	950080
CHEMISTRY TEACHERS	147	312040
CHEMISTS, EXCEPT BIOCHEMISTS	84	241050
CHILD CARE WORKERS	437	680380
CHIROPRACTORS	182	321130
CHOKE SETTERS	445	730050
CIVIL ENGINEERING TECHNICIANS	73	225020
CIVIL ENGINEERS--INCLUDING TRAFFIC	58	221210
CLAIMS EXAMINERS--INSURANCE	48	219210
CLAIMS TAKERS--UNEMP BENEFITS	37	215020
CLEANING, BLDG SERV EX PRIV HOUS	418	670000
CLEANING, BLDG SERV--EX PH, NEC	423	670990
CLEANING, PICKLING EQUIP OPS,TNDRS	748	929580
CLERGY	127	275020
CLERICAL & ADMIN SUP WRKERS, NEC	364	599990
CLERICAL, ADMIN SUPPORT, NEC	363	590000
CLERICAL, ADMINISTRATIVE SUPPORT	272	500000
COIL WINDERS, TAPERS, FINISHERS	768	939080
COIN, VENDING MACHINE SERVICERS	530	859470
COMB MACH TOOL OPS--METAL, PLASTIC	671	915080
COMB MACH TOOL SETTERS--MET, PLAST	670	915050
COMBINED FOOD PREP AND SERVICE	403	650410
COMM EQUIPMENT MECHANICS	497	855000
COMM EQUIPMENT MECHANICS, NEC	503	855990
COMM, TRANS, UTIL OPER MGRS	16	150230
COMMUNICATION EQUIP OPERATORS, NEC	345	571990
COMMUNICATION EQUIPMENT OPERATORS	340	571000
COMMUNICATIONS, MAIL DISTRIBUTION	339	570000
COMPL, ENFORCE INSPECT--EX CONST	45	219110
COMPUTER ENGINEERS	61	221270
COMPUTER OPS--EX PERIPHERAL EQUIP	334	560110
COMPUTER PROGRAMMERS, INCL AIDES	103	251051
COMPUTER SCIENCE TEACHERS	156	312260
COMPUTER SCIENTISTS AND RELATED	101	251000
COMPUTER SCIENTISTS, REL WRKRS,NEC	105	251990
COMPUTER, MATH, OPS RESRCH, RELATED	100	250000
CONCRETE AND TERRAZZO FINISHERS	549	873110
CONST AND BUILDING INSPECTORS	44	219080
CONST TRADES, EXTRACTIVE--HELPERS	856	983000
CONST, EXTRACTIVE--EX HELPERS, NEC	590	879990
CONSTRUCTION MANAGERS	14	150170
CONSTRUCTION TRADES	535	870000
CONSTRUCTION TRADES WORKERS, NEC	576	878990
CONSTRUCTION TRADES, NEC	569	878000
CONTINUOUS MINING MACHINE OPERATOR	586	879410
CONVEYOR OPERATORS AND TENDERS	848	979510
COOKING MACH OPS,TNDRS-FOOD,TOBACC	734	929170
COOKS--INSTITUTION OR CAFETERIA	399	650280
COOKS--RESTAURANT	398	650260
COOKS--SHORT ORDER	401	650350
COOKS--SPECIALTY FAST FOOD	400	650320

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOLING, FREEZING EQUIP OPS, TNDRS	738	929280
CORRECTION OFFICERS, JAILERS	377	630170
CORRECTIVE, MANUAL ARTS THERAPISTS	189	323110
CORRESPONDENCE CLERKS	319	553170
COST ESTIMATORS	42	219020
COUNTER AND RENTAL CLERKS	266	490170
COUNTER ATTENDANTS--FOOD	395	650170
COURT CLERKS	297	537020
CRANE AND TOWER OPERATORS	846	979440
CREDIT ANALYSTS	26	211050
CREDIT AUTHORIZERS	280	531140
CREDIT CHECKERS	281	531170
CRIMINAL INVESTIGATORS, FEDERAL	381	630280
CROSSING GUARDS	386	630440
CRUSHING, MIXING MACH OPS, TNDRS	750	929650
CURATORS, ARCHIVISTS, AND RELATED	172	315110
CUSTOM TAILORS AND SEWERS	615	895050
CUSTOMER SERVICE REPS--UTILITIES	325	553350
CUT, FORM, FAB, PROC MACH SETTER	694	921970
CUT, FORM, FAB, PROCESS MACH OPS	695	921980
CUT, SLICING MACH SETTERS, SET-UP	742	929410
CUTTERS AND TRIMMERS--HAND	774	939260
CUTTING, SLICING MACH OPS, TNDRS	743	929440
DAIRY PROC EQUIP OPRS--INC SETTERS	739	929320
DANCERS AND CHOREOGRAPHERS	237	340530
DATA ENTRY KEYERS--EX COMPOSING	336	560170
DATA KEYERS--COMPOSING	337	560210
DATA PROCESSING EQUIP REPAIRERS	506	857050
DEMONSTRATORS, PROMOTERS, MODELS	270	490320
DENTAL ASSISTANTS	406	660020
DENTAL HYGIENISTS	206	329080
DENTAL LAB TECHNICIANS, PRECISION	648	899210
DENTISTS	179	321050
DERRICK OPS--OIL, GAS EXTRACTION	582	879140
DESIGNERS, EX INTERIOR AND FLORAL	232	340382
DETAIL DESIGN DECORATORS, PAINTERS	645	899110
DETECTIVES, INVESTIGATORS--EX PUB	383	630350
DIETETIC TECHNICIANS	202	325230
DIETITIANS AND NUTRITIONISTS	201	325210
DINING RM ATTENDANTS, BAR HELPERS	394	650140
DIRECTORS--RELIG ACTIVITIES, EDUC	128	275050
DIRECTORY ASSISTANCE OPERATORS	342	571050
DISPATCH--EX POLICE, FIRE, AMBUL	353	580050
DISPATCH--POLICE, FIRE, AMBULANCE	352	580020
DRAFTERS	77	225140
DRAGLINE OPERATORS	840	979260
DREDGE OPERATORS, DIPPER TENDERS	841	979280
DRILLING MACH SETTER--METAL, PLASTI	656	911080
DRIVER/SALES WORKERS	806	971170
DRYWALL INSTALLERS	539	871080
DUPLICATING MACHINE OPERATORS	332	560050
DYERS, PRECISION	620	895210
EARTH DRILLERS, EXCEPT OIL AND GAS	578	879020
ECONOMISTS--INCL MKT RESRCH ANALYS	116	271020

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
EDP AND OFFICE MACHINE OCCUPATIONS	330	560000
EDUCATION ADMINISTRATORS	10	150050
ELEC INSTALLERS-TRANS EQUIPMENT	514	857280
ELECT AND ELECTRONIC ENGINEERS	60	221260
ELECT EQUIP MECHANICS, NEC	515	857990
ELECT HOME ENTERTAINMENT REPAIRERS	507	857080
ELECT METER INSTALLERS, REPAIRERS	520	859110
ELECT MOTOR, AND RELATED REPAIRERS	509	857140
ELECT POWERLINE INSTALLERS	512	857230
ELECT REPAIRERS--COMMERCIAL	510	857170
ELECT, ELECTRONIC ENGINEERING TECH	74	225050
ELECTRICAL EQUIP ASSEMBLERS--PREC	762	931140
ELECTRICAL, ELECTRONIC ASSEMBLERS	767	939050
ELECTRICIANS	544	872020
ELECTRICIANS AND RELATED WORKERS	543	872000
ELECTROCARDIOGRAPH TECHNICIANS	213	329260
ELECTROLYTIC PLATING, MACH OPS	685	919210
ELECTROLYTIC PLATING, MACH SETTER	684	919170
ELECTROMECH EQUIP ASSEMBLERS--PREC	761	931110
ELECTROMED, BIOMEDL EQUIP REPAIRER	519	859080
ELECTRONEURODIAGNOSTIC TECHNOLOGIS	211	329230
ELECTRONIC PAGINATION SYSTEM WKRS	626	897070
ELECTRONIC SEMICONDUCTOR PROCESSOR	729	929020
ELEVATOR INSTALLERS AND REPAIRERS	527	859320
ELEVATOR OPERATORS	422	670110
EMBALMERS	245	390140
EMERGENCY MEDICAL TECHNICIANS	196	325080
EMPL INTERVIEWERS-PRIV OR PUB	39	215080
ENGINEER, MATH, AND NAT SCI MGRS	8	130170
ENGINEERING TEACHERS	154	312220
ENGINEERING, RELATED TECHNICIANS	72	225000
ENGINEERING, RELATED TECHS, NEC	80	225990
ENGINEERS	51	221000
ENGINEERS, ARCHITECTS, SURVEYORS	50	220000
ENGINEERS, NEC	66	221990
ENGLISH, FOREIGN LANGUAGE TEACHERS	152	312160
ENGRAVING, PRINTING WORKERS-HAND	782	939510
ESTIMATORS, DRAFTERS--UTILITIES	78	225170
ETCHERS, ENGRAVERS--PRECISION	602	891280
EXCAVATING, LOADING MACHINE OPS	839	979230
EXTRACTIVE AND RELATED WORKERS	577	879000
EXTRACTIVE WORKERS-EX HELPERS, NE	589	879890
EXTRUDING MACH OPS, TNDRS-SYN/GLAS	720	927080
EXTRUDING MACH SETTERS-METAL, PLAS	664	913110
EXTRUDING, FORMING MACH OPS, TNDRS	752	929710
EXTRUDING, FORMING, SETTERS, SET-U	751	929680
FALLERS AND BUCKERS	444	730020
FARM AND HOME MANAGEMENT ADVISORS	166	313230
FARM EQUIPMENT MECHANICS	492	853210
FARM EQUIPMENT OPERATORS	456	790210
FENCE ERECTORS	575	878170
FILE CLERKS	320	553210
FILM EDITORS	229	340320
FINANCIAL ANALYSTS, STATISTICAL	111	253150

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FINANCIAL MANAGERS	3	130020
FINANCIAL SPECIALISTS, NEC	31	211990
FIRE FIGHTERS	374	630080
FIRE FIGHTING & PREVENTION SUPS	367	610020
FIRE INSPECTORS	372	630020
FIRST-LINE SUP/MGR SERV WKRS, NEC	370	610990
FIRST-LINE SUP/MGR-AG, FOR, FISH	441	720000
FIRST-LINE SUP/MGR-SALES	248	410000
FIRST-LINE SUP/MGR-SERVICE	366	610000
FIRST-LINE SUP/MGR-BLUE COLLAR	461	810000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	467	810990
FIRST-LINE SUP/MGR-CONSTRUCTION	463	810050
FIRST-LINE SUP/MGR-HELP, LABORERS	466	810170
FIRST-LINE SUP/MGR-MECH, REPAIRERS	462	810020
FIRST-LINE SUP/MGR-PRODUCTION	464	810080
FIRST-LINE SUP/MGR-TRANSPORTATION	465	810110
FIRST-LINE SUP/MGR, CLERL, ADM SUP	273	510000
FIRST-LINE SUPERVISORS - AGRICULTU	442	720020
FISH AND GAME WARDENS	385	630410
FITTERS, STRUCTURAL METAL--PREC	760	931080
FLIGHT ATTENDANTS	433	680260
FLOOR LAYERS--EX CARPET, WOOD, TILES	561	876050
FLOOR SANDING MACHINE OPERATORS	562	876080
FLORAL DESIGNERS	231	340381
FOOD AND TOBACCO WORKERS, NEC	640	898990
FOOD BATCHMAKERS	639	898080
FOOD PREPARATION WORKERS	402	650380
FOOD SERVERS-OUTSIDE	393	650110
FOOD SERVICE MANAGERS	17	150261
FOOD SERVICE WORKERS, NEC	404	650990
FOOD WORKERS, PRECISION	636	898000
FOOD, BEV PREP AND SERVICE OCCS	389	650000
FOREST FIRE INSPECT, PREVENT SPECS	373	630050
FOREST, CONSERVATION WORKERS	450	790020
FORESTERS, CONSERVATION SCIENTISTS	89	243020
FORGING MACH SETTERS--METAL, PLAST	666	913170
FOUNDRY MOLD ASSEMBLY, SHAKEOUT	683	919140
FOUNDRY MOLD, CORE MAKERS, PRECISION	642	899020
FRAME WIRERS, CENTRAL OFFICE	499	855050
FREIGHT, MATERIAL MOVERS-HAND, NEC	870	987990
FREIGHT, STOCK, MAT MOVERS, HAND	867	987000
FUNERAL ATTENDANTS	438	680410
FUNERAL DIRECTORS AND MORTICIANS	244	390110
FURNACE OPERATORS AND TENDERS	690	919350
FURNACE, KILN, KETTLE OPS, TENDERS	736	929230
FURNITURE FINISHERS	611	893140
GARDENERS, GROUNDSKEEPERS-EX FARM	454	790140
GAS COMPRESSOR OPERATORS	838	979210
GAS PLANT OPERATORS	788	950050
GAS PUMPING STATION OPERATORS	837	979170
GAUGERS	792	950170
GEM AND DIAMOND WORKERS	650	899260
GENERAL MANAGERS, TOP EXECUTIVES	20	190050
GENERAL OFFICE CLERKS	329	553470

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
GEOLOGIST, GEOPHYS, OCEANOGRAPHERS	86	241110
GLAZIERS	573	878110
GLAZIERS, MANUFACTURING	789	939110
GRADER, DOZER, SCRAPER OPERATORS	844	979380
GRADERS, SORTERS--AG PRODUCTS	453	790110
GRADUATE ASSISTANTS, TEACHING	145	311170
GRINDING MACH SETTER--METAL, PLAST	658	911140
GRINDING, POLISHING WORKERS--HAND	783	939530
GUARDS AND WATCH GUARDS	387	630470
GUIDES	430	680170
HAIRDRESSERS, HAIRSTYLISTS	426	680050
HAND COMPOSITORS AND TYPESETTERS	623	897020
HAND PACKERS AND PACKAGERS	872	989020
HAND WORKERS--JEWELERY, PRECISION	601	891260
HAND WORKERS, NEC	785	939990
HARD TILE SETTERS	548	873080
HEAD SAWYERS	698	923050
HEALTH CARE MAINTENANCE, TREATING	193	325000
HEALTH CARE PROFS, PARAPROFS, NEC	217	329990
HEALTH DIAGNOSING, TREATING	177	321000
HEALTH DIAGNOSING, TREATING, NEC	184	321990
HEALTH PRACTITIONERS, TECHS, RELAT	176	320000
HEALTH SERVICE WORKERS, NEC	417	660990
HEALTH SERVICE, RELATED OCCS	405	660000
HEALTH SPECIALITIES TEACHERS	151	312120
HEAT TREATING MACH OPS, TENDERS	689	919320
HEATERS, METAL & PLASTIC	691	919380
HEATING EQUIP SETTERS-METAL, PLAST	688	919280
HEATING, AC, REFRIG MECHANICS	517	859020
HELPERS--BRICK,STONE MASONS	857	983110
HELPERS--CARPENTERS AND RELATED	858	983120
HELPERS--CONSTRUCTION TRADES, NEC	863	983190
HELPERS--ELECT, POWERLINE INSTALL	859	983130
HELPERS--EXTRACTIVE WORKERS	864	983230
HELPERS--PAINTERS AND RELATED	860	983140
HELPERS--PLUMBERS AND RELATED	861	983150
HELPERS--ROOFERS	862	983160
HELPERS, LABORERS, HAND--EX AG	853	980000
HIGHWAY MAINTENANCE WORKERS	567	877110
HOIST AND WINCH OPERATORS	845	979410
HOME APPLIANCE AND POWER TOOL REPA	508	857111
HOME HEALTH CARE WORKERS	409	660110
HOSTS, HOSTesses--RESTAURANTS	390	650020
HOTEL DESK CLERKS	303	538080
HOUSEKEEPING SUPERVISORS	369	610080
HUMAN SERVICES WORKERS	124	273080
INDUST ENGINEERING TECHS	75	225080
INDUST ENGINEERS--EXCEPT SAFETY	62	221280
INDUSTRIAL PRODUCTION MANAGERS	13	150140
INDUSTRIAL TRUCK,TRACTOR OPERATORS	847	979470
INDUSTRY SPECIFIC CLERICAL, ADMIN	274	530000
INS ADJUST, EXAMIN, INVESTIGATORS	287	533020
INSPECTORS, RELATED OCCUPATIONS	468	830000
INSPECTORS, TESTERS, RELATED, NEC	472	830990

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
INSPECTORS, TESTERS, & GRADERS, PRECI	469	830020
INSTALLER & REPAIRER, MOBILE HOME	529	859380
INSTRUCTIONAL AIDES	175	315211
INSTRUCTIONAL COORDINATORS	174	315170
INSTRUCTORS AND COACHES--SPORTS	165	313210
INSTRUCTORS--NON-VOC EDUCATION	164	313170
INSTRUMENT MAKERS, PRECISION	594	891050
INSTRUMENT REPAIRERS, PRECISION	518	859050
INSULATION WORKERS	570	878020
INSURANCE APPRAISERS--AUTO DAMAGE	288	533050
INSURANCE CLAIMS CLERKS	290	533110
INSURANCE EXAMINING CLERKS	289	533080
INSURANCE POLICY PROCESSING CLERKS	291	533140
INSURANCE WORKERS	286	533000
INTERIOR DESIGNERS	233	340410
INTERVIEW CLERKS--EX PERS, WELFARE	324	553320
INVESTIGATIVE, RELATED, EX INSUR	292	535000
INVESTIGATORS--CLERICAL	294	535050
JANITORS, CLEANERS--EXCEPT MAIDS	420	670050
JEWELERS AND SILVERSITHS	600	891230
JOB PRINTERS	624	897050
JUDGES AND MAGISTRATES	132	281020
LANDSCAPE ARCHITECTS	70	223080
LATHE MACH SETTERS--METAL, PLASTIC	655	911050
LATHERS	541	871140
LAW AND RELATED OCCUPATIONS	130	280000
LAW CLERKS	136	283020
LAWYERS	134	281080
LAWYERS AND RELATED WORKERS	131	281000
LAYOUT WORKERS--METAL, PRECISION	598	891170
LECTURERS	143	311110
LEGAL ASSTS, TECHS--EX CLER, NEC	140	283990
LEGAL ASSTS, TECHS, EX CLERICAL	135	283000
LETTERPRESS SETTERS, SET-UP OPS	705	925150
LIBRARIANS--PROFESSIONAL	169	315020
LIBRARIANS, ARCHIVISTS AND RELATED	168	315000
LIBRARY ASSTS & BOOKMOBILE DRIVERS	305	539020
LICENSE CLERKS	299	537080
LICENSED VOCATIONAL NURSES	195	325050
LIFE SCIENCES TEACHERS	146	312020
LIFE SCIENTISTS	88	243000
LIFE SCIENTISTS, NEC	93	243990
LITHO AND PHOTOENGRAVING WORKERS,	633	897190
LITHOGRAPHY & PHOTOENGRAVING--PREC	627	897080
LNDRY, DRYCLEAN MACH OPS--EX PRESS	726	927260
LOADING MACHINE OPS--MINING	842	979320
LOAN AND CREDIT CLERKS	282	531210
LOAN INTERVIEWERS	279	531110
LOAN OFFICERS AND COUNSELORS	27	211080
LOCKSMITHS AND SAFE REPAIRERS	524	859230
LOCOMOTIVE ENGINEERS	810	973050
LOCOMOTIVE FIRERS	812	973110
LODGING AND TRAVEL WORKERS	300	538000
LODGING MANAGERS	18	150262

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
LOG GRADERS AND SCALERS	452	790080
LOG HANDLING EQUIPMENT OPERATORS	446	730080
LOGGING TRACTOR OPERATORS	447	730110
LONGSHORE EQUIPMENT OPERATORS	832	979020
MACH BLDR, OTH PREC MACH ASSEMBLER	759	931050
MACH FORMING OPS, TENDRS--MET, PLAS	667	913210
MACH FORMING SETTERS--METAL,PLASTI	660	913000
MACH SETTER,SET-UP,OP--EX MET,PLAS	728	929000
MACH SETTERS, SET-UP, OPS, TENDERS	652	910000
MACH TOOL CUTTING OPS--METAL,PLAST	659	911170
MACH TOOL CUTTING--METAL, PLASTIC	653	911000
MACH TOOL SETTERS, OPS--METAL,PLAS	668	915000
MACHINE ASSEMBLERS	766	939020
MACHINE FEEDERS AND OFFBEARERS	865	985000
MACHINE FEEDERS AND OFFBEARERS, NEC	866	985020
MACHINE OPERATORS AND TENDERS, NEC	755	929980
MACHINE SETTERS & SET-UP OPS, NEC	754	929970
MACHINERY AND RELATED MECHANICS	474	851000
MACHINERY MAINT MECHANICS, NEC	480	851190
MACHINERY MAINTENANCE WORKERS	483	851280
MACHINISTS	595	891080
MAIDS AND HOUSEKEEPING CLEANERS	419	670020
MAIL CLK'S-EX MAIL MACH OPS, POSTAL	347	573020
MAIL MACH OPS--PREP AND HANDLING	333	560080
MAIL, MESSAGE DISTRIBUTION WORKERS	346	573000
MAIN LINE STATION ENGINEERS	836	979140
MAINT MECHANICS--MARINE EQUIP	477	851160
MAINT MECHANICS--WATER, POWER	479	851180
MAINT REPAIRERS, GENL UTILITY	484	851320
MAINTENANCE MECHANICS--SEWING MACH	476	851130
MAINTENANCE MECHANICS--TEXTILE	475	851120
MANAGEMENT ANALYSTS	43	219050
MANAGEMENT SUPPORT OCCUPATIONS	23	210000
MANAGEMENT SUPPORT WORKERS, NEC	49	219990
MANAGERS AND ADMINISTRATORS, NEC	21	199990
MANICURISTS	427	680080
MARINE ARCHITECTS	69	223050
MARINE ENGINEERS	65	221380
MARKING CLERKS	358	580210
MASONS AND RELATED WORKERS	545	873000
MATERIAL MOVEMENT EQUIP OPERATORS	831	979000
MATERIAL MOVING EQUIP OPS, NEC	851	979890
MATERIAL RECORDING, DISPATCHING	351	580000
MATERIAL RECORDING, RELATED, NEC	362	580990
MATES--SHIP, BOAT, AND BARGE	818	975050
MATH SCIENTISTS AND RELATED	106	253000
MATHEMATICAL SCIENCES TEACHERS	155	312240
MATHEMATICAL SCIENTISTS	108	253100
MATHEMATICAL SCIENTISTS, NEC	112	253190
MATHEMATICAL TECHNICIANS	113	253230
MEAT, POULTRY, FISH CUTTERS--HAND	778	939380
MECH CONTROL, VALVE INSTALLERS	526	859280
MECHANIC AND REPAIRER HELPERS	854	981000
MECHANIC AND REPAIRER HELPERS, NEC	855	981020

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MECHANICAL ENGINEERING TECHS	76	225110
MECHANICAL ENGINEERS	64	221350
MECHANICS, INSTALLERS, REPAIRERS	473	850000
MECHANICS, NEC	496	853990
MECHS, INSTALLERS, REPAIRERS, NEC	534	859990
MED. CLINICAL LAB ASSISTANTS	205	329050
MED. CLINICAL LAB TECHNOLOGISTS	204	329020
MEDICAL APPLIANCE MAKERS	649	899230
MEDICAL ASSISTANTS	407	660050
MEDICAL RECORDS TECHNICIANS	207	329110
MEDICAL SCIENTISTS	92	243110
MEDICINE, HEALTH SERVICES MGRS	11	150080
MENDERS, GARMENTS AND LINENS	533	859560
MERCH DISPLAYERS, WINDOW TRIMMERS	234	340440
MERCH, PRODUCTS AND OTHER SALES	259	490000
MESSENGERS	350	573110
METAL FABRICATING MACH SETTERS,OPS	672	917000
METAL FABRICATOR, STRUCT MET PRODS	677	917140
METAL MOLDING MACH OPS AND TENDERS	682	919110
METAL MOLDING, MACH SETTER, SET-UP	681	919080
METAL POURERS, CASTERS--BASIC	779	939410
METAL WORKERS, NEC--PRECISION	605	891990
METAL WORKERS, PRECISION	592	891000
METAL, PLAST MACH SETTERS, OPS NEC	693	921000
METAL, PLAST PROCESS MACH SETTERS	678	919000
METALLURGISTS, RELATED ENGINEERS	53	221050
METER READERS--UTILITIES	356	580140
MGRS AND ADMIN OCCUPATIONS	2	100000
MILLING MACH SETTERS--METAL,PLASTI	657	911110
MILLWRIGHTS	481	851230
MINE CUTTING, CHANNELING MACH OPS	587	879430
MINING ENGINEERS--INCL MINE SAFETY	54	221080
MINING MACHINE OPERATORS, NEC	588	879490
MINING, OIL AND GAS, RELATED MGRS	15	150210
MISC AG, FORESTRY, FISHING	449	790000
MISC HELPERS, LABORERS--HAND	871	989000
MISC HELPERS, LABORERS--HAND, NEC	874	989990
MISC INDUSTRY SPECIFIC CLERICAL	304	539000
MISC MECH. INSTALLERS, REPAIRERS	516	859000
MISC METAL, PLAST MACH SETTERS OPS	692	919990
MISC PERSONAL SERVICE OCCUPATIONS	424	680000
MISC PROFS, PARAPROFS, TECHNICAL	240	390000
MISC SECRETARIAL, GENL OFF OCCS	314	553000
MISC SERVICE WORKERS	439	690000
MISC TRANSPORTATION WORKERS	826	978000
MKTING, ADV, PUB-REL MANAGERS	6	130110
MOBILE EQUIP MECHANICS, REPAIRERS	485	853000
MOBILE HEAVY EQUIP MECH--EX ENGINE	490	853140
MOLDERS AND CASTERS--HAND	780	939440
MOLDERS, SHAPERS--EX JEWELER	643	899050
MOTION PICTURE PROJECTIONISTS	730	929050
MOTOR VEHICLE OPERATORS	800	971000
MOTOR VEHICLE OPERATORS, NEC	807	971990
MOTORBOAT OPERATORS	820	975110

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MOTORCYCLE REPAIRERS	488	853080
MUNICIPAL CLERKS	298	537050
MUNICIPAL WORKERS	296	537000
MUSIC DIRECTORS, SINGERS, COMPOSERS	235	340470
MUSICAL INST REPAIRERS AND TUNERS	523	859210
MUSICIANS--INSTRUMENTAL	236	340510
NAT SCIENTISTS AND RELATED WORKERS	81	240000
NC TOOL, PROCESS PROGRAMMERS	104	251110
NEW ACCOUNTS CLERKS	277	531050
NONELECTROL PLATING MACH-OPS	687	919260
NONELECTROL PLATING MACH-SETTERS	686	919230
NUCLEAR ENGINEERS	57	221170
NUCLEAR MEDICINE TECHNOLOGISTS	208	329140
NUCLEAR TECHNICIANS	97	245080
NUMERICAL MACH TOOL OPS--MET, PLAS	669	915020
NURSE AIDES, ORDERLIES, ATTENDANTS	408	660080
NURSERY WORKERS	451	790050
NURSING INSTRUCTORS	144	311140
OCCUPATIONAL THERAPISTS	187	323050
OCCUPATIONAL THERAPY ASSISTANTS	414	660210
OCCUPATIONS NOT CLASSIFIED	875	AAAAAA0
OFF MACH, CASH REGISTER SERVICERS	525	859260
OFFICE MACHINE OPERATORS, NEC	338	560990
OFFSET LITHOGRAPHIC PRESS SETTERS	704	925120
OIL PUMPERS--EXCEPT WELL HEAD	834	979080
OPERATING ENGINEERS	850	979560
OPS, SYS RESEARCHERS--EX COMPUTER	107	253020
OPTICAL GOODS WORKERS, PRECISION	647	899170
OPTICIANS--DISPENSING, MEASURING	198	325140
OPTOMETRISTS	180	321080
ORDER CLERKS--MATERIALS, SERVICE	321	553230
ORDER FILLERS--WHLE & RET SALES	360	580260
ORDINARY SEAMEN AND MARINE OILERS	822	975170
OTH SOCIAL SCIENCE RELATED WORKERS	120	273000
OTHER AG, FORESTRY, FISHING	457	790990
OTHER ELECTRICAL EQUIP MECHANICS	504	857000
OTHER HAND WORKERS	765	939000
OTHER HEALTH PROFS, PARAPROFS	203	329000
OTHER MANAGEMENT SUPPORT WORKERS	41	219000
OTHER PRECISION WORKERS	641	899000
OTHER PROF, PARAPROF, TECHNICAL	246	399990
OTHER TEACHERS AND INSTRUCTORS	158	313000
PACKAGING, FILLING MACH OPS, TNDRS	753	929740
PAINT, COAT & SPRAY MACH SETTERS	745	929510
PAINTERS AND RELATED WORKERS	552	874000
PAINTERS, PAPERHANGERS--CONST	553	874020
PAINTERS, TRANSPORTATION EQUIP	744	929470
PAINTING, COATING, DECORATING--HAN	781	939470
PAINTING, REL MACH OPS, TENDERS	746	929530
PAPER GOODS MACH SETTERS,SET-UP OP	733	929140
PARALEGAL PERSONNEL	137	283050
PARKING ENFORCEMENT OFFICERS	378	630210
PARKING LOT ATTENDANTS	829	978080
PASTE UP WORKERS	625	897060

## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PATTERN AND MODEL MAKERS--METAL	597	891140
PATTERN AND MODEL MAKERS--WOOD	607	893020
PATTERN MARKERS--WOOD	608	893050
PATTERNMAKERS AND LAYOUT WORKERS	614	895020
PATTERNMAKERS, MODEL MAKERS, LAYOUT	644	899080
PAVING, TAMPING-EQUIP OPERATORS	566	877080
PAYROLL AND TIMEKEEPING CLERKS	327	553410
PERIPHERAL EDP EQUIPMENT OPERATORS	335	560140
PERS CLERKS-EX PAYROLL	318	553140
PERS, TRAINING, LAB-REL SPECS	36	215000
PERS, TRAINING, LAB-REL SPECS, NEC	40	215110
PERS, TRAINING, LABOR-REL MGRS	4	130050
PERSONAL AND HOME CARE AIDES	436	680350
PEST CONTROLLERS AND ASSISTANTS	421	670080
PETRO REFINERY, CONTROL PANEL OPS	791	950140
PETROLEUM ENGINEERS	55	221110
PETROLEUM PUMP SYSTEM OPERATORS	790	950110
PETROLEUM TECHNICIANS	98	245110
PHARMACISTS	199	325170
PHARMACY ASSISTANTS	416	660260
PHARMACY TECHNICIANS	200	325180
PHOTOENGRAVERS	628	897120
PHOTOENGRAVING, LITHO MACH OPS	714	925450
PHOTOENGRAVING, LITHO PHOTOGRAPHER	707	925210
PHOTOGRAPHERS	226	340230
PHOTOGRAPHIC PROC MACH OPS,TNDRS	731	929080
PHOTOGRAPHIC PROCESS WKR,PRECISION	646	899140
PHYSICAL SCIENCE TEACHERS, NEC	149	312090
PHYSICAL SCIENTISTS	82	241000
PHYSICAL SCIENTISTS, NEC	87	241990
PHYSICAL THERAPISTS	188	323080
PHYSICAL THERAPY ASSISTANTS & AIDE	411	660170
PHYSICAL, LIFE SCIENCE TECHS	94	245000
PHYSICAL, LIFE SCIENCE TECHS, NEC	99	245990
PHYSICIAN'S ASSISTANTS	197	325110
PHYSICIANS AND SURGEONS	178	321020
PHYSICISTS AND ASTRONOMERS	83	241020
PHYSICS TEACHERS	148	312060
PILE DRIVING OPERATORS	565	877050
PILOTS--SHIP	819	975080
PIPELAYERS	557	875080
PIPELAYING FITTERS	556	875050
PLANT AND SYSTEM OCCUPATIONS	786	950000
PLANT AND SYSTEM OPERATORS, NEC	798	950990
PLAST MOLDING, CASTING MACH SETTER	679	919020
PLASTERERS AND STUCCO MASONS	551	873170
PLASTIC MOLDING, CASTING MACH OPS	680	919050
PLATEMAKERS	632	897180
PLUMBERS AND RELATED WORKERS	554	875000
PLUMBERS, PIPEFITTERS, STEAMFITTER	555	875020
PODIATRISTS	181	321110
POLICE AND DETECTIVE SUPERVISORS	368	610050
POLICE DETECTIVES	375	630110
POLICE PATROL OFFICERS	376	630140

## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PORTABLE MACHINE CUTTERS	775	939280
POST-SECONDARY TEACHERS	142	311000
POSTAL MAIL CARRIERS	348	573050
POSTAL SERVICE CLERKS	349	573080
POSTMASTERS, MAIL SUPERINTENDENTS	9	150020
POSTSECONDARY TEACHERS, NEC	157	312990
POWER DISTRIBUTORS AND DISPATCHERS	796	950280
POWER PLANT OPS--EX AUXILIARY EQUI	793	950210
POWER REACTOR OPERATORS	795	950260
POWERHOUSE, RELATED ELECTRICIANS	511	857210
PRESS MACH SETTERS--METAL, PLASTIC	662	913050
PRESSERS--DELICATE FABRICS	619	895170
PRESSERS--HAND	772	939210
PRESSING MACH OPS--TEXTILE, GARMEN	727	927280
PRINT PRESS SETTERS, SET-UP OPS	703	925100
PRINT PRESS SETTERS, SET-UP OPS NE	706	925190
PRINT REL SETTERS, SET-UP OPS, NEC	711	925290
PRINT, BINDING, REL MACH OPS, TNDR	716	925490
PRINTING PRESS MACHINE OPS, TENDER	713	925430
PRINTING WORKERS, NEC--PRECISION	635	897990
PRINTING WORKERS, PRECISION	622	897000
PRINTING, BINDING, RELATED WORKERS	702	925000
PROCUREMENT CLERKS	322	553260
PROD INSPECTORS, TESTERS, & GRADER	470	830050
PROD, CONST, OPER, MAT HANDLING	480	800000
PROD, PLANNING, EXPEDITING CLERKS	354	580080
PRODUCERS, DIRECTORS, ACTORS	238	340560
PRODUCTION OCCUPATIONS, PRECISION	591	890000
PROFESSIONAL, PARAPROF, TECHNICAL	22	200000
PROOFREADERS AND COPY MARKERS	307	539110
PROPERTY AND REAL ESTATE MANAGERS	12	150110
PROTECTIVE SERVICE OCCUPATIONS	371	630000
PROTECTIVE SERVICE WORKERS, NEC	388	630990
PSYCHIATRIC AIDES	410	660140
PSYCHIATRIC TECHNICIANS	215	329310
PSYCHOLOGISTS	118	271080
PUB ADMIN CHIEF EXECS, LEGISLATORS	19	190020
PUB REL SPECS, PUBLICITY WRITERS	221	340080
PUMP OPERATORS	849	979530
PUNCH MACH SETTERS--METAL, PLASTIC	661	913020
PURCH AGTS AND BUYERS--FARM PRODS	34	213050
PURCH AGTS--EX WHLE, RET, FARM PRODS	35	213080
PURCHASING AGENTS AND BUYERS	32	213000
PURCHASING MANAGERS	5	130080
RADIO MECHANICS	502	855140
RADIO OPERATORS	243	390080
RADIOLOGIC TECHNOLOGIST, THERAPEUTIC	209	329170
RADIOLOGIC TECHNOLOGIST, DIAGNOSTIC	210	329210
RAIL CAR REPAIRERS	491	853170
RAIL TRANSPORTATION WORKERS	808	973000
RAIL VEHICLE OPERATIVES, NEC	815	973990
RAIL YARD ENGINEERS AND RELATED	811	973080
RAIL-TRACK LAYING, MAINT EQUIP OPS	568	877140
RAILROAD BRAKE, SIGNAL, SWITCH OPS	814	973170

## ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
RAILROAD CONDUCTORS, YARDMASTERS	809	973020
RAILROAD, TRANSIT POLICE, SPEC AGTS	384	630380
REAL ESTATE CLERKS	308	539140
RECEPTIONISTS, INFORMATION CLERKS	316	553050
RECREATION WORKERS	125	273110
RECREATIONAL THERAPISTS	191	323170
REFRACTORY MATERIALS REPAIRERS	482	851260
REFUSE COLLECTORS	869	987050
REGISTERED NURSES	194	325020
REINFORCING METAL WORKERS	550	873140
RELIGIOUS WORKERS	126	275000
RELIGIOUS WORKERS, NEC	129	275990
REPORTERS AND CORRESPONDENTS	222	340110
RESERVATION, TRANS TICKET AGENTS	302	538050
RESIDENTIAL COUNSELORS	123	273070
RESPIRATORY CARE PRACTITIONERS	186	323020
RIGGERS	528	859350
ROASTING, BAKING MACH OPS--FOOD	735	929210
ROCK SPLITTERS, QUARRY	580	879080
ROLLING MACH SETTERS--METAL, PLAST	665	913140
ROOF BOLTERS	585	879230
ROOFERS	572	878080
ROTARY DRILL OPS--OIL, GAS EXTRACT	581	879110
ROUSTABOUTS	584	879210
SAFETY ENGINEERS--EXCEPT MINING	63	221320
SALES AGENTS--ADVERTISING	257	430230
SALES AGENTS--FINANCIAL SERVICES	254	430140
SALES AGENTS--REAL ESTATE	252	430080
SALES AGENTS--SEL BUS SERVICES	255	430170
SALES AGENTS--SERVICE	249	430000
SALES AGENTS, PLACERS--INSURANCE	250	430020
SALES AND RELATED OCCUPATIONS	247	400000
SALES AND RELATED WORKERS, NEC	271	499990
SALES ENGINEERS	260	490020
SALES REPS, NON-SCIENTIFIC EX RET	262	490080
SALES REPS, SCIENTIFIC--EX RETAIL	261	490050
SALES REPS, SERVICE--NEC	258	430990
SALESPERSONS - RETAIL(NON-VEHICLE)	264	490112
SALESPERSONS--PARTS	265	490140
SAW MACH TOOL SETTERS--METAL, PLAST	654	911020
SAWING MACH OPS AND TENDERS	699	923080
SAWING MACH SETTERS, SET-UP OPS	697	923020
SCANNER OPERATORS	630	897150
SCREEN PRINT MACH SETTERS, SET-UP	709	925240
SECRETARIAL, GENERAL OFFICE OCCS	309	550000
SECRETARIES	310	551000
SECRETARIES, GENERAL	313	551080
SECRETARIES, LEGAL	311	551020
SECRETARIES, MEDICAL	312	551050
SELECTED ROAD, RAIL AND RELATED	563	877000
SEPARATING, STILL MACH OPS, TNDRS	749	929620
SEPTIC TANK, SEWER PIPE SERVICERS	558	875110
SERVICE OCCUPATIONS	365	600000
SERVICE STATION ATTENDANTS	828	978050

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SERVICE UNIT OPERATORS	583	879170
SEWERS-HAND	773	939230
SEWING MACHINE OPERATORS--GARMENT	723	927170
SEWING MACHINE OPS--NON-GARMENT	724	927210
SHAMPOOERS	428	680110
SHEAR MACH SETTERS--METAL, PLASTIC	663	913080
SHEET METAL DUCT INSTALLERS	571	878050
SHEET METAL WORKERS	603	891320
SHERIFFS AND DEPUTY SHERIFFS	382	630320
SHIP ENGINEERS	823	975210
SHIPFITTERS	599	891210
SHOE AND LEATHER WKRS--PRECISION	617	895110
SHOE SEWING MACHINE OPS, TENDERS	725	927230
SHUTTLE CAR OPERATORS	843	979350
SIGNAL OR TRACK SWITCH MAINTAINERS	501	855110
SLAUGHTERERS AND BUTCHERS	637	898020
SMALL ENGINE SPECIALISTS	495	853280
SOCIAL SCI--INCL URBAN, REG PLNRS	115	271000
SOCIAL SCI, RECREATION, RELIGIOUS	114	270000
SOCIAL SCIENCE TEACHERS	150	312100
SOCIAL SCIENTISTS, NEC	119	271990
SOCIAL WKRS--EX MED, PSYCHIATRIC	122	273050
SOCIAL WORKERS--MED, PSYCHIATRIC	121	273020
SOLDERERS AND BRAZERS	771	939170
SOLDERING, BRAZING MACH OPS, TENDRS	676	917110
SOLDERING, BRAZING MACH SETTERS	675	917080
SPEC MATERL PRINTING MACH SETTERS	708	925220
SPECIAL AGENTS--INSURANCE	38	215050
SPEECH PATHOLOGISTS, AUDIOLOGISTS	190	323140
SPOTTERS--DRY CLEANING	618	895140
STATEMENT CLERKS	284	531260
STATION INSTALLERS--TELEPHONE	513	857260
STATIONARY ENGINEERS	797	950320
STATISTICAL CLERKS	323	553280
STATISTICIANS	109	253120
STENOGRAPHERS	315	553020
STEVEDORES--EX EQUIPMENT OPERATORS	868	987020
STOCK CLERKS--SALES FLOOR	267	490210
STOCK CLERKS--STOCKROOM, WAREHOUSE	359	580230
STONE MASONS	547	873050
STRIPPERS	631	897170
STRUCTURAL METAL WORKERS	574	878140
SUBWAY AND STREETCAR OPERATORS	813	973140
SURGICAL TECHNICIANS	214	329280
SURVEYING AND MAPPING SCIENTISTS	71	223110
SURVEYING AND MAPPING TECHS	79	225210
SWITCHBOARD OPERATORS	341	571020
SYSTEMS ANALYSTS--ELEC DATA PROC	102	251020
TANK CAR AND TRUCK LOADERS	833	979050
TAPERS	540	871110
TAX EXAMINERS, COLLECT, REV AGENTS	46	219140
TAX PREPARERS	28	211110
TAXI DRIVERS AND CHAUFFEURS	805	971140
TEACHERS AND INSTRUCTORS, NEC	167	313990

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
TEACHERS--ELEMENTARY SCHOOL	160	313050
TEACHERS--SECONDARY SCHOOL	161	313080
TEACHERS--SPECIAL EDUCATION	162	313110
TEACHERS--VOC ED AND TRAINING	163	313140
TEACHERS, EDUCATORS, LIBRARIANS	141	310000
TEACHERS, PRESCHOOL & KINDERGARTEN	159	313020
TECHNICAL ASSISTANTS--LIBRARY	170	315050
TECHNICAL WRITERS	220	340050
TELEGRAPH AND TELETYPE OPERATORS	344	571110
TELEGRAPH, TELETYPE INSTALLERS	500	855080
TELEMARKETERS, SOLICITORS & RELATE	269	490260
TELEPHONE, CABLE TV INSTALLERS	505	857020
TELLERS	276	531020
TEXT,APPAREL,FURNISHINGS,NEC--PREC	621	895990
TEXTILE BLEACHING, DYEING MACH OPS	722	927140
TEXTILE DRAW-OUT MACH OPS, TNDRS	721	927110
TEXTILE MACH SETTERS, SET-UP OPS	718	927020
TEXTILE OPS,TNDRS--WIND, TWIST,KNIT	719	927050
TEXTILE, APPAREL, FURNISHINGS,PREC	613	895000
TEXTILE, RELATED SETTERS, OPS	717	927000
THERAPISTS	185	323000
THERAPISTS, NEC	192	323990
TIMBER CUTTING AND LOGGING	443	730000
TIMBER CUTTING AND RELATED, NEC	448	730990
TIRE BUILDING MACHINE OPERATORS	732	929110
TIRE REPAIRERS AND CHANGERS	532	859530
TITLE EXAMINERS AND ABSTRACTORS	139	283110
TITLE SEARCHERS	138	283080
TOOL AND DIE MAKERS	593	891020
TOOL GRINDERS, FILERS, SHARPENERS	596	891110
TRAFFIC TECHNICIANS	242	390050
TRAFFIC, SHIPPING, RECEIVING CLKS	361	580280
TRANS AND RELATED WORKERS, NEC	830	978990
TRANS ATTENDANTS--EX FLIGHT	434	680280
TRANS, MAT MOVING EQUIP OPS, NEC	852	979990
TRANS, MATERIAL MOVING MACHINE OPS	799	970000
TRANSIT CLERKS	278	531080
TRANSPORTATION AGENTS	355	580110
TRANSPORTATION INSPECTORS	471	830080
TRAVEL AGENTS	256	430210
TRAVEL CLERKS	301	538020
TRUCK DRIVERS, HEAVY	801	971020
TRUCK DRIVERS, LIGHT	802	971050
TYPESETTING, COMPOSING MACH OPS	712	925410
TYPISTS, INCLUDING WORD PROCESSING	317	553070
U.S. MARSHALLS	380	630260
UNDERGROUND MINE MACH MECHANICS	478	851170
UNDERWRITERS	25	211020
UPHOLSTERERS	616	895080
URBAN AND REGIONAL PLANNERS	117	271050
USHERS, LOBBY ATTENDANTS	431	680210
VEHICLE SALESPERSONS - RETAIL	263	490111
VEHICLE WASHERS, EQUIP CLEANERS	873	989050
VETERINARY ASSISTANTS	458	798060

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
VETERINARY TECHNICIANS	216	329510
VETS AND VETERINARY INSPECTORS	183	321140
VOCATIONAL & EDUCATIONAL COUNSELOR	173	315140
WAITERS AND WAITRESSES	392	650080
WARDROBE ATTENDANTS	435	680320
WATCH ASSEMBLERS, REL--PRECISION	763	931170
WATCHMAKERS	522	859170
WATER TRANSPORTATION WORKERS	816	975000
WATER TREATMENT PLANT OPERATORS	787	950020
WEIGHERS, MEASURERS--RECORDKEEPING	357	580170
WELDERS AND CUTTERS	770	939140
WELDING MACH OPERATORS AND TENDERS	674	917050
WELDING MACH SETTERS, SET-UP OPS	673	917020
WELFARE ELIG WORKERS, INTERVIEWERS	293	535020
WELL HEAD PUMPERS	835	979110
WHLE AND RET BUYERS--EX FARM PRODS	33	213020
WOOD MACHINISTS	609	893080
WOODWORK MACH OPS, TNDRS--EX SAWING	701	923140
WOODWORK MACH SETTERS--EX SAWING	700	923110
WOODWORKERS, NEC--PRECISION	612	893990
WOODWORKERS, PRECISION	606	893000
WOODWORKING MACH SETTERS, OPS	696	923000
WORKERS, PRECISION--NEC	651	899990
WRITERS AND EDITORS	219	340020
WRITERS, ARTISTS, ENTER, ATHLETES	218	340000

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